Identifying Plants : Science : Year 1



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To find out what a plant is.	Children will learn about what a plant is, then either go plant hunting, or plant seeds.	 Can the children identify plants? Can the children describe the features of different plants? Can the children identify similarities and differences between plants? 	 Slides Worksheet 1A/1B/1C/1D/1E Seeds, pots, compost, magnifying glasses Digital camera (FSD? activity only) Growing Seeds Video (Plenary)
Lesson 2	To identify and describe garden plants.	Children will learn about a variety of common garden plants, identify some of their features, and consider why they are appealing to people, e.g. easy to grow, or attracts insects.	 Can the children name garden plants? Can the children describe the features of different garden plants? Can the children identify similarities and differences between plants? 	 Slides Worksheet 2A/2B/2C/2D Picture Cards
Lesson 3	To identify and describe wild plants.	Children will identify some wild plants, and begin to consider how their seeds — which they grew from — came to be there. They will then sort, match or describe some wild plants.	 Can the children name wild plants? Can the children describe the features of different wild plants? Can the children identify similarities and differences between plants? 	 Slides Worksheet 3A/3B/3C Picture Cards A/B/C Domino Cards A/B (FSD? activity only)
Lesson 4	To identify and describe a range of trees.	Children will identify and name trees, then learn some differences between deciduous and evergreen trees. They may then either sort trees into groups or go tree hunting.	 Can the children name some trees? Can the children describe the features of different trees? Can the children use the terms 'evergreen' and 'deciduous'? 	 Slides Worksheet 4A/4B/4C/4D Picture Cards A/B Tree Identification Chart A/B (FSD? activity only)
Lesson 5	To identify the different parts of a plant.	Children will identify the main parts of a variety of plants and describe their functions. They will then either examine plants (and identify features) or draw and label plant diagrams.	 Can the children name the main parts of a plant? Do the children know parts of the plant have different functions? Can the children identify similarities and differences between the parts of different plants? 	 Slides Worksheet 5A/5B/5C/5D A selection of flowers with stems and leaves (FSD? activity only)
Lesson 6	To make observations of growing plants.	Children will identify ways in which plants change over time. They may either study and describe plants they have grown themselves, or identify ways in which plants around school have changed over time.	 Do children know that plants grow? Can children name the main parts of a plant? Can children describe and make observations about how plants change? 	 Slides Worksheet 6A/6B/6C/6D Time Lapse Video Seed Story Wheel A/B/C Photos from lesson one (FSD? activity only) Digital camera (FSD? activity only) End of Unit Quiz (Plenary)

Identifying Animals : Science : Year 1



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to identify and name a variety of common animals.	Children will identify, name and describe a variety of common animals kept as pets.	 Can the children identify various pets? Can the children name various pets? Can the children describe various pets? 	 Slides Worksheet 1A/1B/1C Pet Cards (FSD? activity only) Name Cards (FSD? activity only) Clue Cards (FSD? activity only)
Lesson 2	To be able to identify and name a variety of common UK mammals.	Children will identify a variety of mammals and compare and describe some of their features.	 Can the children identify various mammals? Can the children name various mammals? Can the children compare various mammals? 	 Slides Worksheet 2A/2B/2C/2D Word Bank Picture Cards (FSD? activity only)
Lesson 3	To be able to identify and compare a variety of common UK birds and reptiles.	Children will compare the characteristics of a variety of birds and reptiles, then answer questions or describe animals in their own words.	 Can the children identify and name various birds? Can the children identify and name various reptiles? Can the children compare reptiles and birds? 	 Slides Worksheet 3A/3B/3C/3D Fact Sheet Picture Cards (FSD? activity only)
Lesson 4	To be able to identify and compare a variety of common UK fish and amphibians.	Children will consider similarities and differences between some fish and amphibians. They will also learn about some fish/amphibian life cycles and describe what they have learned in their own words.	 Can the children identify and name various fish? Can the children identify and name various amphibians? Can the children compare fish and amphibians? 	 Slides Worksheet 4A/4B/4C/4D Amphibian Life Cycle Cards Fish Life Cycle Cards Life Cycle Sheet (FSD? activity only)
Lesson 5	To be able to identify and sort carnivores, herbivores and omnivores.	Children will describe what a variety of different animals eat, then sort animals using Venn diagrams or tables.	 Do the children understand different animals eat different things? Can the children classify animals by what they eat? Can the children use the terms carnivore, herbivore and omnivore? 	 Slides Worksheet 5A/5B/5C/5D/5E Picture Cards A/B
Lesson 6	To be able to take care of animals.	Children will consider the needs of a variety of animals, and explain how best to care for them.	 Can the children identify what an animal needs? Can the children explain why it is important to take care of an animal? Do the children understand different animals need different things? 	 Slides Worksheet 6A/6B/6C/6D Sentence Cards True or False Cards (FSD? activity only)
Lesson 7	To collect data about animals and answer questions.	Children will collect, present and interpret data about pets or mini beasts.	 Can the children identify and name a variety of animals? Can the children record information in a table or a graph? Can the children answer questions about their data? 	 Slides Worksheet 7A/7B/7C/7D/7E/7F

My Body : Science : Year 1



	Learning Objective	Overview	Assessment Questions	Resources	
Lesson 1	To be able to identify, name and label body parts.	Children will identify and name several body parts and identify their location on their own bodies. They will then label and/or draw diagrams.	 Can children identify various body parts? Can children name various body parts? Can children label various body parts? 	 Slides Worksheet 1A/1B/1C Body Parts Cards (FSD? activity only) 	
Lesson 2	To explore what parts of our bodies we use for different activities.	Children will consider which parts of their body are used during a variety of different activities. They will then describe how body parts are used, or how they move.	 Can children name various body parts? Can children identify where various body parts are? Can children describe which body parts are used for different activities? 	 Slides Worksheet 2A/2B Activity Cards Challenge Cards (FSD? activity only) 	
Lesson 3	To find out about the five senses, in particular the sense of sight.	Children will consider why sight is an important sense, and conduct tasks where they will have to use their own sense of sight.	 Do children know what the five senses are? Do children know that eyes are used for seeing things? Can children use their eyes to look carefully at pictures and objects? 	 Slides Worksheet 3A/3A SOLUTION/3B/3C Picture Card A/B Colour Sheets (FSD? activity only) 	
Lesson 4	To explore the sense of touch.	Children will consider that their whole bodies can sense touch, but that we mostly use our hands to feel things. They will then feel and describe a variety of objects.	 Can children name the five senses? Do children know that our whole bodies can use the sense of touch? Can children describe how a variety objects feel using appropriate vocabulary? 	 Slides Worksheet 4A/4B Word Mat Variety of objects to feel 	
Lesson 5	To explore the sense of smell.	Children will consider what our sense of smell is used for and, optionally, conduct a smell investigation.	 Do children know what the five senses are? Do children know that the nose is used for the sense of smell? Can children identify use their noses to identify smells? 	 Slides Worksheet 5A/5B/5C/5D Question Sheet Fact Cards Plastic pots (FSD? activity only) Variety of objects to smell (FSD? activity only) Tin foil and elastic bands (FSD? activity only) 	
Lesson 6	To explore the sense of taste.	Children will think about the different tastes of foods and use a range of vocabulary to describe taste. They may either sort and describe given images of foods, or conduct a taste investigation.	 Do children know that we use our mouths to taste things? Can children use appropriate vocabulary to describe different flavours? Can children express preferences about foods they like and dislike? 	 Slide Worksheet 6A/6B/6C Picture Cards Fruit Cards (FSD? activity only) Variety of fruits to taste (FSD? activity only) 	
Lesson 7	To explore the sense of sound.	Children will explore ways in which we use our sense of sound. They may then either produce information text to show what they have learned during this, and previous lessons, or conduct a sound investigation.	 Can children name the five senses? Can children identify which part of the body each sense uses? Can children listen carefully to sounds to identify them? 	 Slides Worksheet 7A/7B/7C/7D Flap Templates Digital recorder (FSD? activity only) End of Unit Quiz Sheet 	

Everyday Materials : Science : Year 1



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to identify a variety of common materials.	Children will learn what materials are, identify some common materials, and describe some of their uses.	 Do children know what a material is? Can children identify a variety of common materials? Do children know where some materials come from? 	 Slides Worksheet 1A/1B/1C Sorting Cards A/B Label Cards (FSD? activity only)
Lesson 2	To be able to distinguish between an object and the material from which it is made.	Children will look at a variety of objects and identify some of the materials they are made from. To show what they have understood, children may write lists, match objects to labels or sort objects and materials.	 Can children identify a variety of common materials? Can children distinguish between an object and the material from which it is made? Can children identify which material a variety of common objects are made from? 	 Slides Worksheet 2A/2B/2C/2D Materials Cards (FSD? activity only) Variety of materials to sort (FSD? activity only) Picture Cards (FSD? activity only)
Lesson 3	To be able to describe materials according to their properties.	Children will use words such as 'soft', 'smooth', 'hard', or 'bendy' to describe and/or sort a variety of materials and objects.	 Can children use a variety of appropriate words to describe what various materials are like? Can children match materials to various properties? Can children group objects and materials according to their properties? 	 Slides Variety of objects e.g. oil, felt, stones, corrugated cardboard, elastic bands, marbles, plastic cups, etc. Worksheet 3A/3B Word Mat Question Cards
Lesson 4	To be able to describe why some materials suit certain objects better than others.	Children will consider why the properties of materials make them suitable for certain uses. They will then select appropriate materials for use in a range of objects.	 Can children identify and describe a variety of materials? Can children suggest why a material has been chosen for a particular purpose? Can children identify materials that are inappropriate for certain uses and offer alternatives? 	 Slides Worksheet 4A/4B/4C Statement Cards Game Cards A/B (FSD? activity only)
Lesson 5	To carry out an experiment to find out which materials are waterproof.	Children will devise methods for testing materials to determine whether or not they are waterproof. They may then either test materials, or produce a model of a waterproof product.	 Can children make suggestions for how to test which materials are waterproof and which aren't? Can children test a variety of materials to see which are waterproof and which aren't? Can children draw conclusions from their experiment? 	 Slides Worksheet 5A/5B/5C Materials to test Plastic cups Elastic bands Water Spoons Plastic trays Materials to construct umbrella frames (FSD? activity only)
Lesson 6	To recap what we have learnt about everyday materials.	Children will recap prior learning (done during previous lessons), then show what they have understood by making models or matching objects to labels and descriptions.	 Can children identify a variety of everyday materials and describe their properties? Can children distinguish an object from the material from which it is made? Can children identify materials that are suitable for a particular purpose? 	 Slides Wheel Template A/B/C Booklet Template Challenge Cards (FSD? activity only) Variety of materials (FSD? activity only) End of Unit Quiz

Seasonal Changes : Science : Year 1



	Learning Objective	Overview	Assessment Questions	Resources
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Lesson 1	To find out about different seasons and how to describe them.	Children will describe the weather they can directly observe and other types of weather they know of. They will describe what the weather is normally like during different seasons, and what people might wear in different weather conditions.	 Can the children name the seasons? Do children know that weather changes for each season? Do children know that weather affects human activity? 	 Slides Worksheet 1A/1B/1C Outfit Cards Picture Cards (FSD? activity only only) Thesaurus and sticky notes (FSD? activity only)
Lesson 2	To find out about the seasons and how they are different.	Children will study images, looking for clues as to which season it is – including weather conditions and plant growth.	 Can the children identify the seasons? Can the children say how the seasons differ? Do children know any features of the seasons? 	 Slides Worksheet 2A/2B/2C/2D Seasons Jigsaws Sentence Cards Word Mat (FSD? activity only)
Lesson 3	To find out about how animals are affected by the seasons.	Children will consider ways in which the changing conditions of the seasons affect the lives of animals, focussing on the behaviour of robins during each season. They may either undertake sequencing activities, or work in groups to learn about behaviours of other animals.	 Can the children say how the seasons differ? Can the children say how the different seasons affect animal behaviour? Can children explain the terms 'adapt' and 'hibernate'? 	 Slides Worksheet 3A/3B/3C Robin's Jobs Sheet Challenge Card (FSD? Activity only) Hedgehog Fact Sheet (FSD? Activity only) Story Sheet - plenary
Lesson 4	To find out about how humans are affected by the seasons.	Children will learn about how humans adapt their behaviour to survive during the changing seasons. They may then either explore in detail the ways in which clothing worn may change, or what food is available at different times of year.	 Can the children explain how the seasons affect what we wear? Can the children explain how the seasons affect what we do? Do children understand that different food grows in different seasons? 	 Slides Worksheet 4A/4B/4C Vegetables Picture Cards (FSD? activity only) Vegetables Clue Cards (FSD? activity only) Vegetables Name Cards (FSD? activity only) Fruit Picture Cards (FSD? activity only) Fruit Clue Cards (FSD? activity only) Fruit Name Cards (FSD? activity only)
Lesson 5	To find out about the day length is affected by the seasons.	Children will learn how the length of day and night, and the times at which they occur, change throughout the year. They may either answer questions about given information, or sort activities into the seasons for which they are most appropriate.	 Can the children identify which season has the shortest days? Can the children identify which season has the longest days? Do the children know the sun rises in the morning and sets in the evening? 	 Slides Worksheet 5A/5B/5C/5D Timeline A/B Activity Cards (FSD? activity only)
Lesson 6	To investigate the weather during the seasons.	Children will complete given pictograms using given sets of data to show changes in weather, or frequency of different types of clothes worn, during each season.	 Can children gather weather data over a period of time? Can children use data to create a pictogram? Can children answer questions about their data? 	 Slides Seasons Cards Blank Weather Sheet Worksheet 6A/6B/6C Pictogram Sheets End of Unit Quiz

Living in Habitats : Science : Year 2



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to identify things that are living, things that are dead and things that have never been alive.	Children will begin to identify some life processes which indicate that animals and plants are alive. They will then identify and sort objects and organisms into group: living and non-living things.	 Can children identify living things? Can children identify living things that have died? Can children identify things that have never been alive? 	 Slides Worksheet 1A/1B Picture Cards A/B Trays/bags for collecting objects (FSD? activity only)
Lesson 2	To understand that living things need to live in suitable habitats.	Children will learn about what a habitat is, and what animals and plants need to survive in them. They will then identify and group animals by their habitats.	 Do children know what a habitat is? Do children know that animals and plants need to live in habitats they are suited to? Can children match animals and plants to suitable habitats? 	 Slides Worksheet 2A/2B/2C Habitat Cards (FSD? activity only) Animal Cards (FSD? activity only)
Lesson 3	To explore the plants and animals that live in seaside habitats.	Children will identify features of seaside habitats and discuss which plants and animals might live in it, and where. They may then either identify and name a variety of organisms, or sort organisms into those found in seaside habitats, and those found in other habitats.	 Can children identify some animals in a seaside habitat? Can children identify some plants in a seaside habitat? Do children recognise how animals and plants in a seaside habitat are linked together? 	 Slides Worksheet 3A/3B/3C Domino Cards Picture Cards (FSD? activity only)
Lesson 4	To be able to explore plants and animals in an unfamiliar habitat.	Children will identify characteristics of animals which give clues about the habitats they live in. They will then discuss what a variety of habitats are like, then either describe what they provide for the organisms that live in them, or how organisms are adapted to suit their habitat.	 Can children name some different types of habitats? Can children describe different types of habitats Can children compare habitats and the animals and plants that live in them? 	 Slides Worksheet 4A/4B/4C Picture Cards Animal Cards (FSD? activity only) Habitat Cards (FSD? activity only)
Lesson 5	To be able to explore and describe a micro-habitat.	Children will learn about micro-habitats and the organisms that live in them. They may then either explore micro-habitats outside, or describe and categorise given sets of mini-beasts according to some of their characteristics.	 Do children know what a micro-habitat is? Can children name some micro-habitats? Can children identify and describe some of the animals that live in micro-habitats? 	 Slides Worksheet 5A/5B/5C Picture Cards (FSD? activity only)
Lesson 6	To explore food chains in a habitat.	Children will begin to understand how organisms in a habitat are dependent upon one another, and that these dependencies can be shown as food chains. They may then either complete given food chains, or try to make food chains from a given set of organisms.	 Do children know that animals and plants in a habitat are dependent on each other for food? Can children construct a simple food chain? Can children construct food chains that include humans? 	 Slides Worksheet 6A/6B/6C/6D Label Cards (FSD? activity only) End of Unit Quiz

Growing Plants : Science : Year 2



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To understand that different seeds grow into different plants and to describe them.	Children will look at seeds and seed packets and establish what can be learned from them and how best to plant and grow different seed types. They may then either design seed packets or plant seeds.	 Do the children know seeds grow into plants? Can the children name any plants that grow from seeds? Do the children understand seed packets tell us what seeds need to grow? 	 Slides Worksheet 1A/1B/1C Plant Sheet A variety of seeds (FSD? activity only) Seed Labels (FSD? activity only)
Lesson 2	To understand that plants can be grown from bulbs.	Children will learn about bulbs: their large food source, and the times of year at which they grow. They may then either undertake a sequencing activity to show bulb growth, or plant bulbs.	 Do the children know plants grow from seeds and bulbs Can the children name any plants that grow from bulbs? Can the children explain why some plants need to grow from a bulb? 	 Slides Worksheet 2A/2B/2C Picture Cards A/B/C A variety of bulbs (FSD? activity only) Bulb Labels (FSD? activity only)
Lesson 3	To be able to explain why and how seeds are dispersed.	Children will learn about fruits: The seeds they contain and some ways in which they are dispersed. They may then either study a variety of fruits or explain how seeds are dispersed in their own words.	 Can children explain why seeds need to be dispersed? Can children give suggestions as to why fruits have so many seeds? Can children describe some of the ways in which seeds can be dispersed? 	 Slides Worksheet 3A/3B/3C/3D Variety of seeded fruits (FSD? activity only)
Lesson 4	To plan, carry out and evaluate an investigation into the conditions that affect germination.	Children will learn about germination, then devise tests to determine the various conditions seeds need to germinate. They may then either conduct an investigation or study and interpret a given set of results.	 Can children ask questions that can be investigated scientifically and suggest how to answer them? Can children plan and carry out an investigation, making sure it is a fair test? Can children evaluate their results and draw conclusions? 	 Slides Worksheet 4A/4B/4C/4D Seeds/Plant pots/Soil/Measuring cylinders/ Water Results Sheet (FSD? activity only)
Lesson 5	To observe and describe how a plant changes as it matures.	Referring back to prior learning, children will consider how plants change over time. They may then either undertake sequencing activities, or describe stages in the growth of their own plant.	 Can the children explain how their plant has changed over time? Can the children use scientific words to explain each stage of the plants development? For example 'germination', 'growth', 'leaves', 'stem', 'shoots', 'roots'? Do the children understand what a plant needs to grow? 	 Slides Worksheet 5A/5B/5C/5D Time lapse video Plants grown from seeds or bulbs in lesson 1 or 2 Picture Cards (FSD? activity only) End of Unit Quiz slides and sheets

Growth and Survival : Science : Year 2



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To find out about the offspring of a variety of different animals.	Children will consider why animals have babies, then match parent animals to their offspring.	 Do children know that all animals, including humans, have offspring that grow into adults? Can children match a variety of adult animals to their offspring? Do children know that growth from offspring to adult is a gradual process? 	 Slides Worksheet 1A/1B/1C Picture Cards A/B/C/D
Lesson 2	To find out about the different ways in which animals reproduce.	Children will begin to learn about how animals who give birth to live offspring, and those who lay eggs, reproduce. They will then match and sort animals according to various criteria.	 Do children know that animals have offspring that grow into adults? Can children describe some of the different ways animals have offspring? Do children know that not all animals reproduce in the same way? 	 Slides Worksheet 2A/2B/2C/2D Information Sheet Animal Cards (FSD? activity only)
Lesson 3	To explore how humans grow as they get older.	Children will learn about ways in which the body grows over time, then either describe some changes in their own words, or conduct a height investigation.	 Do children know that humans grow as they get older? Do children know that body parts will grow in proportion? Can children describe the stages of human development? 	 Slides Worksheet 3A/3B/3C/3D Tape measures/metre rulers (FSD? activity only)
Lesson 4	To find out what animals, including humans, need to survive.	Children will think about the basic needs of animals, such as eating, drinking and breathing. They will consider how these needs vary between species, then explain the needs of various animals in their own words.	 Do children know that all animals, including humans, need food to survive? Do children know that all animals, including humans, need water to survive? Do children know that all animals, including humans, need air to survive? 	 Slides Worksheet 4A/4B/4C/4D Challenge Cards (FSD? activity only) Various sources of information, e.g. books, internet, fact sheets from pet stores, etc. (FSD? activity only)
Lesson 5	To explore the environment as a factor of survival for animals, including humans.	Children will learn about ways in which habitats provide some things that animals need, and how animals are best suited to specific environments.	 Do children know that animals need air, water and food to survive? Do children know that an animal's survival often depends on its environment? Can children suggest reasons for why a species might become extinct? 	 Slides Worksheet 5A/5B/5C/5D Research Cards (FSD? activity only) Variety of information sources (FSD? activity only)
Lesson 6	To find out how to eat a healthy, balanced diet.	Children will learn about foods: which are more/less healthy, then either sort foods, or plan, prepare and describe some healthy foods.	 Do children know why we eat and why it is important to eat a balanced diet? Do children know which foods we should eat most and least of? Can children suggest meals that would be good for them? 	 Slides Worksheet 6A/6B/6C/6D Picture Cards Balanced Plate sheet Food Pyramid sheet Variety of fruits and vegetables (FSD? activity only)
Lesson 7	To find out why exercise is important to keep our bodies healthy.	Children will consider the importance of exercise, and how different exercises, sports and activities affect different parts of the body. They may then either undertake a sorting activity, or plan a course of exercises.	 Do children know that exercise is an important part of keeping our bodies healthy? Can children identify some of the changes that take place in our body when we exercise? Can children name various ways they can exercise different parts of their bodies? 	 Slides Worksheet 7A/7B Picture Cards PE equipment, e.g. bean bags, hoops, etc. (FSD? activity only)

Exploring Everyday Materials : Science : Year 2



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to identify a variety of materials and sort them according to a variety of criteria.	Children will identify and describe some common materials, then think of similar materials that could be grouped in the same ways.	 Can children identify and name a variety of different materials? Can children organise a variety of materials into groups according to given criteria? Can children organise a variety of materials into groups according to their own criteria? 	 Slides Picture Sheet Worksheet 1A/1B/1C Variety of different materials (FSD? activity only) Hoops (FSD? activity only)
Lesson 2	To be able to identify natural and man-made materials.	Children will identify some natural and man-made materials and describe them, then continue to find out about, sort and describe a range of materials.	 Can children recognise that some materials are naturally occurring and some are not? Can children name some naturally occurring materials? Can children identify objects that are made from naturally occurring materials? 	 Slides Worksheet 2A/2B/2C Variety of natural and man-made materials (FSD? activity only) Paper, glue, scissors for collages (FSD? activity only)
Lesson 3	To identify that some materials can change shape by squashing, bending, stretching and twisting, and others can't.	Children will squash, bend, twist and stretch a range of materials, then predict how other materials might behave. They will also conduct investigations, recording their findings.	 Do children know that some materials change shape when you bend, squash, stretch or twist them? Can children identify some materials that can change shape temporarily? Can children identify some materials that cannot change shape at all? 	 Slides Worksheet 3A/3B/3C/3D Plasticine, elastic bands, stones Variety of objects to test (FSD? activity only)
Lesson 4	To identify the suitability of metal and plastic for a variety of purposes	Children will look at a variety of objects made using metal or plastic and consider why each material has been used. They will go on to sort and describe a range of plastic and metal objects.	 Do children know that metal and plastic are different materials? Can children identify some different things metal and plastic are used for? Can children explain why a particular material is chosen to be made into an object. 	 Slides Worksheet 4A/4B/4C Variety of metal and plastic objects Fact Cards (FSD? activity only)
Lesson 5	To identify different products that can be made from wood and their features and purposes.	Children will learn about how trees are turned into materials we use. They will then either describe how paper is made in their own words, or make and test paper models.	 Do the children know that paper and cardboard are made from wood? Can the children identify features of wood, cardboard and paper? Can children explain the advantages and disadvantages of using different wood products? 	 Challenge Card (FSD? activity only)
Lesson 6	To identify different materials that are used for the same product.	Children will consider why different objects are made using metal or plastic, then describe the uses of objects and the materials they are made from.	 Do the children know that different materials can be used to make the same product? Can the children identify which materials have been used in a product? Can children explain how the purpose of a product might affect the material that is used? 	 Slides Worksheet 6A/6B/6C/6D/6E Objects: teddy bear, pencil, book, bottle, table, spade, wall, fence (FSD? activity only)
Lesson 7	To identify material inventions and discoveries.	Children will learn about some man-made materials, their uses and their inventors. They will then describe some products and do an end of unit quiz.	 Do the children know that products are improved and changed over time? Can the children identify the different ways materials have been used? Can children explain why their invention is an improvement on the original product? 	 Slides Worksheet 7A/7B/7C/7D Reason Cards Invention Sheet A/B/C (FSD? activity only)

Super Scientists : Science : Year 2



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To investigate the effect gravity has on everyday objects.	Children will learn about some of the work of Isaac Newton, then explore ways in which the speed of of falling objects can be affected during either included practical activity.	 Can the children use their own knowledge to make predictions? Can the children observe patterns? Can the children talk about what they have found out? 	 Slides Worksheets 1A/1B/1C Spinner Template Equipment: stopwatches/metre rulers/paper clips/scissors Equipment: stopwatches/marbles/cardboard boxes/cardboard tubes/tape (FSD? activity only)
Lesson 2	To investigate what happens to light when it passes through different transparent objects.	Children will learn about Isaac Newton's work and discoveries regarding light, then conduct practical investigations where they will change the ways in which light passes through transparent objects.	 Can the children use their own experiences to make predictions? Can the children observe patterns? Can the children talk about what they have found out? 	 Slides Mindmap Worksheets 2A/2B/2C Equipment: variety of prisms/torches Coloured paper Modelling Sheet A/B Telescope Instructions (FSD? activity only) Equipment: magnifying glasses (different strengths), thin cardboard, tape (FSD? activity only) Tray of water/mirror/torch (Plenary only)
Lesson 3	To investigate the wind.	Children will learn about Maggie Aderin-Pocock and her work. Then they will explore the wind by either making and using a wind vane or an anemometer. Children will be encouraged to ask questions and make observations.	 Can the children use their own experiences to make predictions? Can the children ask questions and make observations? Can the children talk about what they have found out? 	 Slides Mindmap Wind Vane Instructions A/B Arrow Templates Equipment: card, rulers, scissors, pencils, paper straws, glue/tape, plasticine, skewers, paper plates, pen lids Anemometer Instructions A/B (FSD? activity only) Equipment: paper cups, single-hole punches, wooden skewers, bottle, tape, sand/water, pencils, plasticine, scissors, stopwatch (Plenary only)
Lesson 4	To investigate whether sound can pass through materials.	Children will learn about some of the work of Alexander Graham Bell, then conduct practical investigations to explore ways in which sound travels through different materials.	 Can the children use their own experiences to make predictions? Can the children observe patterns? Can the children talk about what they have found out? 	 Slides Mindmap Worksheets 4A/4B/4C Telephone Instructions Equipment: cups/string/wool/scissors/modelling clay Screen to divide each child, paper and building blocks (FSD? activity only) Picture Cards A/B (FSD? activity only)
Lesson 5	To investigate our senses and reflexes.	Children will learn about some significant historical discoveries about the body, then conduct practical investigations where they either test their reflexes, or use their senses of touch, taste and smell.	 Can the children use their own experiences to make predictions? Can the children observe patterns? Can the children talk about what they have found out? 	 Slides Mindmap Worksheets 5A/5B/5C/5D Rulers Feely bags or boxes/a variety of objects to put inside them/a selection of things to smell and fruits and vegetables to taste/plastic cups/cotton wool/plates (FSD? activity only) Three slices of bread/three sealable sandwich bags/ cup of water/tablespoon (Plenary)
Lesson 6	To investigate how germs are transferred by touching things.	Children will learn about the work of significant scientists who studied how diseases. They will then either create information texts about staying healthy, or explore how germs are transmitted using a scientific model.	 Can the children use their own experiences to make predictions? Can the children observe patterns? Can the children talk about what they have found out? 	 Slides Mindmap Worksheets 6A/6B Fact Sheet A4 paper/video camera Washing Hands Rhyme (FSD? activity only) Equipment: basins of cold water/cooking oil/glitter or cinnamon/paper towels (FSD? activity only)
Lesson 7	To investigate electrical circuits to make a light bulb light up.	Children will learn about some of the work of Thomas Edison, then make, test, change or improve their own electrical circuits.	 Can the children use their own experiences to make predictions? Can the children observe patterns? Can the children talk about what they have found out? 	 Slides Mindmap Worksheets 7A/7B/7C/7D/7E/7F Quiz Instructions Fact Sheet Equipment: split pins/wires/bulb/bulb holder/battery Equipment: wires/bulb/bulb holder/battery (FSD? activity only) Symbol Key - optional (FSD? activity only)

Rocks, Fossils and Soils : Science : Year 3



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to identify naturally occurring rocks and explore their uses.	Children will learn where rocks come from, then consider differences between naturally occurring rocks and man-made objects which are similar to rocks. They will then identify, describe and/or sort rocks and man-made objects.	 Do children know that rocks are used for a variety of purposes? Can children identify some common rocks? Can children identify rocks that are naturally occurring and those that are man-made? 	 Slides Worksheet 1A/1B/1C/1D Picture Cards A Picture Cards B (plenary) Hoops
Lesson 2	To be able to group rocks according to their characteristics.	Children will consider ways in which rocks can be sorted according to different criteria. They may then either sort given rock samples, or study and sort pictures of rocks according to various criteria.	 Can children suggest ways of grouping rocks according to their characteristics? Can children observe and compare rocks, and put them into different categories? Can children justify their choices and explain their decisions? 	 Slides Worksheet 2A/2B/2C Rock samples Picture Cards (FSD? activity only)
Lesson 3	To be able to plan, carry out and evaluate experiments to compare rocks.	Children will start to learn about erosion. They will also consider how different rocks may be tested to determine how quickly they erode and whether they are permeable. Following this, children will conduct practical erosion/permeability investigations.	 Do children know what the terms 'erosion' and 'permeable' mean? Can children plan and carry out an experiment to compare rocks based on certain characteristics? Can children evaluate their results and draw conclusions? 	 Slides Worksheet 3A/3B/3C Question Sheet Rock Samples Stopwatches Beakers of water (FSD? activity only) Pipettes (FSD? activity only)
Lesson 4	To identify rocks that are used for particular purposes.	Children will consider what sources may help them find out about a rock's uses, then carry out research to help them describe the characteristics of rocks and their uses.	 Can children use a variety of sources to find out information about rocks and their uses? Can children organise the information they have found out? Can children present the information they have found out clearly? 	 Slides Worksheet 4A/4B Information Sheet Books, CD ROMs, access to internet, etc. A3 and A5 paper Rock Cards (FSD? activity only)
Lesson 5	To explore soil and how it is formed.	Children will learn about soil: how it is formed and its uses. They will also study different types of soil. Following this, children will study and describe a variety of soil samples.	 Do children know that soil is made up of rocks and decaying organic matter? Do children know that there are different types of soil? Do children know that there are different layers of soil? 	 Slides Worksheet 5A/5B/5C Three different soil samples Graded sieves Trowels and containers (FSD? activity only)
Lesson 6	To explore what fossils are and how they are formed.	Children will learn about how fossils are formed, then either describe this process in their own words or conduct a practical, 'fossil-making' activity.	 Do children know that rocks move in a continuous cycle? Do children know what a fossil is? Can children explain how fossils are formed? 	 Slides Worksheet 6A/6B/6C Sentence Cards Help Sheet (FSD? activity only) Plasticine, plaster of Paris, petroleum jelly, card, paint (FSD? activity only)
Lesson 7	To be able to identify fossilised remains.	Children will study images of fossilised remains and discuss what can be learned about the animal by doing this. They may then either conduct research to find out about given images of fossils, or do a practical, 'fossil excavation' activity.	 Can children describe how fossils are formed? Can children identify a variety of common fossils? Do children know where fossils are more likely to be found and why? 	 Slides Worksheet 7A/7B/7C Picture Cards Cameras - optional Chocolate chip biscuits (FSD? activity only) Tools e.g. tweezers, cocktail sticks, etc. (FSD? activity only) End of Unit Quiz Sheet

Light and Shadow : Science : Year 3



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To recognise that we need light in order to see.	Children will learn that darkness is the absence of light, and that without light we cannot see. They will then identify, describe and sort a variety of light sources.	 Do children know that we need light in order to see things? Do children know that dark is the absence of light? Can children identify a variety of light sources? 	 Slides Worksheet 1A/1B/1C/1D Picture Cards (FSD? activity only)
Lesson 2	To explore the Sun as a light source and identify the difference between night and day.	Children will learn about some differences between night and day, including starting to understand how the Sun rises and sets. They may then describe differences between night and day in their own words by answering questions, producing diagrams or writing poetry.	 Can children define the difference between night and day? Do children know why the Sun rises and sets each day? Do children know that we need light to see and that darkness is the absence of light? 	 Slides Worksheet 2A/2B/2C Poem Template sheets (FSD? activity only)
Lesson 3	To investigate what shadows are and why they are formed.	Children will share their ideas about how objects could be tested to determine whether or not they will make a shadow. They may then either test their ideas, or explore the way shadows are created, using shadow puppets.	 Do children know that shadows are formed when light is blocked? Do children know the difference between objects that are transparent, translucent and opaque? Can children explore shadows using torches and express their findings? 	 Slides Worksheet 3A/3B/3C Variety of opaque, transparent and translucent objects Torches Cardboard boxes, card, sticks, greaseproof paper (FSD? activity only) Help Sheet (FSD? activity only)
Lesson 4	To investigate how shadows behave.	Children will continue to learn about how shadows are created, then conduct practical shadow investigations where they will predict, test and draw/ write to show their findings.	 Do children know that shadows are formed when the light from a light source is blocked by a solid object? Can children use simple equipment to explore how shadows behave? Can children record findings using drawings and diagrams? 	 Slides Worksheet 4A/4B/4C Variety of small objects Torches Challenge Cards (FSD? activity only) Large sheets of paper (FSD? activity only)
Lesson 5	To investigate how the size of shadows change throughout the day.	Children will discuss and predict what will happen to a shadow cast by a stick in sunlight throughout the day. They may then conduct a shadow investigation and present their findings using bar graphs.	 Can children explain why shadows created by the Sun change position during the course of a day? Can children plan and carry out an investigation? Can children find patterns in the way the size of shadows change? 	 Slides Worksheet 5A/5B/5C/5D Shadow stick, ruler and chalk Access to computers (FSD? activity only)
Lesson 6	To explore how light is reflected from surfaces.	Children will learn that some surfaces reflect more light than others. They may then either identify and describe a range of reflective surfaces, or conduct a reflection investigation using mirrors.	 Do children know that light travels in a straight line? Do children know that we need light in order to see? Do children know that we see when light is reflected from a surface? 	 Slides Worksheet 6A/6B/6C Mirrors Challenge Card (FSD? activity only) End of Unit Quiz

How Plants Grow : Science : Year 3



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To identify and describe the functions of the roots of flowering plants.	Children will recap the main features of flowering plants, then learn about how roots grow, and what their functions are. They will then plan an experiment where they will grow beans, measuring root growth.	 Can children name the main parts of flowering plants? Can children explain the function of roots? Can children record findings and draw conclusions? 	 Slides Worksheets 1A/1B/1C Growing Beans worksheet Dried bean seeds (butter beans, kidney beans or similar) Cotton wool Clear pots or jars Water
Lesson 2	To investigate the way in which water is transported within plants.	Children will learn how water, absorbed by the roots is distributed around the plant via the stem. They will then conduct experiments where the capillary action in plant stems can be observed.	 Can children explain where plants get their water from? Can children name the parts of the plant that transport water? Can children plan and carry out simple investigations? Can children draw simple conclusions? 	 Slides Worksheets 2A/2B/2C Celery, food dye, water, plastic containers Plastic cups, kitchen roll (FSD? activity only)
Lesson 3	To identify and describe the functions of leaves in flowering plants.	Children will start to learn how plants make their own food using air and sunlight. They will then either describe parts of this process in their own words, or plan and conduct an experiment to show the importance of light for plant growth.	 Can children say what plants need to produce their own food? Can children explain the function of leaves in flowering plants? Can children start to explain some stages in the life cycle of flowering plants? 	 Slides Worksheets 3A/3B/3C Life Cycle Flowchart Equipment as listed below (FSD? activity only)
Lesson 4	To explore the part that flowers play in the life cycle of flowering plants, including pollination , seed formation and seed dispersal.	Children will start to identify the parts of a flower, and how pollination occurs. They will then continue to identify and label the parts of a flower by drawing diagrams or dissecting flowers.	 Can children name the main parts of flowers? Can children describe the functions of the main parts of flowers? Are children able to describe one of the ways in which flowering plants reproduce? Do children know how and where seeds are formed in flowering plants? 	 Slides Worksheets 4A/4B/4C Dissecting Flowers worksheet (FSD? activity only) Double-sided sticky tape (FSD? activity only) Sticky tape or sticky-backed plastic (FSD? activity only) Tweezers (FSD? activity only) Flowers (FSD? activity only)
Lesson 5	To explore some of the ways in which flowering plants disperse their seeds.	Children will learn how the ovaries of flowering plants grow to form seeds, and how they may be dispersed in a variety of ways. They will then either continue to study in-depth some ways in which seeds are dispersed, or identify seeds found outside.	 Can children explain why flowering plants need to disperse their seeds? Can children describe some ways in which seeds are dispersed? Can children identify how seeds are dispersed based on their appearance? 	 Slides Worksheets 5A/5B/5C Fruits and Seeds sheet Seed Dispersal Fact File (FSD? activity only)
Lesson 6	To understand the structure of seeds and their importance as a food source.	Children will learn about the structure of seeds and how plants grow from them. They will then either taste and compare seeds, or make seed cake bird feeders.	 Can children name the parts of a seed and describe their functions? Can children identify the parts of a seed? Do children know why seeds are an important food source for animals? 	 Slides End of Unit Quiz Worksheets 6A/6B/6C A variety of different edible beans and seeds Bird Seed Cakes sheet (FSD? activity only) Bird seed mix (FSD? only) Lard or equivalent (FSD? only) Bread crumbs, cheese, oats, dried fruit {optional} (FSD? only) Yogurt pots (FSD? only) String (FSD? only)

Health and Movement : Science : Year 3



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To identify that humans get the nutrition they need from what they eat.	Children will learn about the need for a varied diet in order to get the right nutrition, then either sort food into groups, giving reasons, or visit a supermarket to learn more about different food groups.	 Do children know that humans get nutrition from what they eat? Can children identify and group a variety of foods? Can children recognise foods for growth and foods for energy? 	 Slides Worksheet 1A/1B/1C/1D Picture Cards Group Cards Digital cameras - optional (FSD? activity only)
Lesson 2	To identify that a balanced diet is needed in order to stay healthy.	Children will continue to learn about the need for a varied, balanced diet by looking at food pyramids and examples of healthy meals (and planning their own). They will also consider ways in which people with dietary restrictions can have a balanced diet.	 Do children know that humans need to eat to grow and move? Do children understand what is meant by the term 'balanced diet'? Can children identify and describe which food groups we should eat most of and which food groups we should eat least of? 	 Slides Worksheet 2A/2B/2C Food Pyramid sheet (FSD? activity only)
Lesson 3	To investigate which foods different animals eat.	Children will find out about what some animals eat. They will use technical vocabulary to describe different types of animal, and present their findings (following research about animals, their habitats and their diets) in their own words.	 Do children know that different animals have different diets? Can children use secondary sources to find out about the diets of different animals? Can children recognise whether an animal is a herbivore, carnivore or omnivore? 	 Slides Worksheet 3A/3B/3C/3D Books, internet, etc. Animal Cards (FSD? activity only)
Lesson 4	To carry out an investigation to find out what pets eat.	Children will think about what questions could be asked to learn more about what pets eat. They may then either plan and conduct an investigation, or study a given set of results. In either case, children will present data using pictograms or bar graphs.	 Can children pose questions that can be investigated? Can children gather data systematically? Can children present and evaluate the results of an investigation? 	 Slides Worksheet 4A/4B/4C/4D/4E Results Sheet (FSD? activity only)
Lesson 5	To explore human and animal skeletons.	Children will learn about bones in humans and other animals. They will then either label skeleton diagrams, or identify similarities between the skeletons of a variety of animals.	 Do children know that animals with a skeleton are called vertebrates? Can children identify different bones in the human skeleton? Can children compare bones in animal and human skeletons? 	 Slides Worksheet 5A/5B/5C/5D Books, access to internet, etc. Picture Cards (FSD? activity only) Skeleton Sheet (FSD? activity only)
Lesson 6	To find out about how the skeleton supports and protects the body and to investigate how invertebrates are supported.	Children will learn about the functions of the skeleton in vertebrates, and how some invertebrates move and are protected in different ways. They will then research and describe various invertebrates.	 Do children know the difference between vertebrates and invertebrates? Do children know that internal skeletons support and protect the body? Do children know how the bodies of invertebrates support and protect them? 	 Slides Worksheet 6A/6B/6C Books, access to internet, etc. Picture Cards (FSD? activity only) Label Cards (FSD? activity only)
Lesson 7	To find out what muscles are and how skeletal muscles help us to move.	Children will continue to learn about how the body moves, focussing on the ways muscles work. They will then study a variety of sources to find out more about muscles, noting their findings.	 Do children know that muscles help us move? Do children know that muscles work in pairs to move different parts of the body? Do children know that some animals have strong muscles for particular purposes? 	 Slides Worksheet 7A/7B/7C Fact Cards Challenge Cards (FSD? activity only) End of Unit Quiz

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Forces and Magnets : Science : Year 3



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To explore what forces are and notice that some forces need contact between two objects.	In this initial lesson the children will identify forces as a push or a pull that will create, or stop a movement. They will identify the forces in different situations noting that many need contact in order for the force to be applied. The children will be challenged to identify forces using an arrow or to discuss how forces can create movement in different situations.	 Can children explain what a force is? Do children know that some forces need contact between two objects? Can children identify pushes and pulls and explain the forces in action? 	 Slides Forces Cards 1A/1B Worksheet 1A Close Slip 1A Question Cards 1A (FSD? activity only)
Lesson 2	To compare how things move on different surfaces.	In this lesson the children will investigate how the texture of a surface affects how things move across them. They will be show how to use and read a force meter and conduct an experiment to measure the force it takes to move different objects. Alternatively, they can conduct a similar experiment, testing how far a toy car can travel across different surfaces.	 Do children know that forces can be measured in newtons using a force meter? Can children set up and carry out an investigation to explore how objects move on different surfaces? Can children draw conclusions from their observations? 	 Slides Worksheet 2A/2B/2C Force meters Access to a variety of surfaces, e.g. carpet, concrete, grass, wood, bubble wrap, etc. Ramp and toy car (FSD? activity only) Metre rulers/tape measures (FSD? activity only) Class Results Sheet 2A (FSD? activity only) Pre/Post-investigation Cards 2A (FSD? activity only)
Lesson 3	To explore how magnetic forces work.	Children will be introduced to magnets, and how they can exert a force on certain objects without touching them. They will explore the different forces a magnetic field can exert, depending on which poles are facing each other. In their independent activities, they will show their understanding of this by using the correct scientific vocabulary.	 Do children understand that a magnet does not need contact with an object for the force to be applied? Can children explain what happens when the opposite poles of two magnets are placed close together? Can children explain what happens when the same poles of two magnets are placed close together? 	 Slides Bar magnets Worksheet 3A/3B/3C Word Bank Exploration Cards (FSD? activity) Magnets of varying strengths and sizes, paper clips, string, tape (FSD? activity only) Worksheet 3D (FSD? activity only)
Lesson 4	To be able to identify magnetic materials.	In this lesson, children recap on what they already know about magnets, before beginning to discuss and predict what other materials could be attracted to magnets. In their independent activities, children test a variety of materials, and are encouraged to notice what the magnetic materials have in common.	 Can children make and test predictions about whether materials are magnetic or not? Can children make careful observations? Can children group objects on the basis of whether or not they are magnetic? 	 Slides Worksheet 4A/4B/4C/4D Magnets Variety of materials to test (e.g. paper clips, rubbers, metal and wooden spoons, safety pins, aluminium cans, coins, pencils, scissors, keys etc.)
Lesson 5	To investigate uses for magnets.	In this final lesson the children will be challenged to discuss how magnets are used in everyday places as well as some more specific ways. They will then be asked to think about the strength of magnets and how this might affect the use of that magnet. They will conduct an investigation into the strength of magnets or, alternatively, they can make their own compasses using magnets.	 Can children name some uses for magnets? Are children able to suggest ways in which magnets can be used to solve common problems? Can children briefly describe how a compass works? 	 Slides Strength Experiment Sheet 5A Worksheet 5A/5B/5C Challenge Cards 5A/5B (FSD? activity only) Worksheet 5D (FSD? activity only)

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States of Matter : Science : Year 4

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To compare and group materials together according to whether they are solids or liquids.	Challenge your class to define what solids and a liquids are and sort materials into groups based on their state. Children will discuss the different items that may not seem to fit and look closely at how they're made up including pourable solids such as rice or sand. Alternatively, explore and make observations of non-newtonian fluids as you make slime together.	 Can children provide a definition of solid or liquid? Are children able to sort objects into solids and liquids? Can children explain why they have placed an object into either group? 	 Slides Object Cards 1A Sorting Cards 1A/1B/1C Worksheet 1A/1B Slime Recipe Cards 1A (FSD? activity only) Ingredients for slime (FSD? activity only) Challenge Cards 1A (FSD? activity only) Worksheet 1C (FSD? activity only)
Lesson 2	To identify and explore the properties of gases.	Take a look at the third state that a material can be in and explore if gases have mass. Look at the different ways that gases are used in everyday life and how their different properties make them useful for different purposes.	 Can children name some of the properties of gases? Are children able to write a scientific definition of a gas? Can children use their scientific knowledge to draw conclusions about their experiment's results? 	 Slides Syringes of different sizes (FSD? activity only) Bottles with lids Plastic tubes* (FSD? activity only) Balloons (FSD? activity only) Containers of water Experiment Card 2A Worksheet 2A/2B/2C Fizzy drink Electronic scales Syringes of different sizes (FSD? activity only) Pneumatics Card 2A (FSD? activity only) Worksheet 2D (FSD? activity only)
Lesson 3	To observe that materials change state when they are heated or cooled.	In this lesson the children will take a closer look at the particles in solids, liquids and gases and how they behave in these states. They will then use this knowledge to describe what happens when solids and liquids freeze and melt.	 Can children describe the difference between the particles in solids, liquids and gases? Can children describe what melting is? Can children describe what freezing is? 	 Slides Worksheet 3A/3B/3C Recipe Cards 3A (FSD? activity only) Ingredients (FSD? activity only) Cooking equipment (FSD? activity only) Party Cards 3A (FSD? activity only)
Lesson 4	To research the temperature in degrees Celsius (°C) at which materials change state.	This lesson challenges your class to research the melting points of different materials. They can use the internet to find the melting points of materials such as gallium, olive oil and gold. Alternatively, have your class design and reflect on an investigation about the melting points of different chocolate.	 Do children understand that different materials have different freezing/melting points? Can children use their research skills to find the melting points of less common materials? Can children evaluate an experiment's fairness and suggest improvements? 	 Slides Access to the internet Sorting Cards 4A Worksheet 4A/4B/4C Experiment Card 4A (FSD? activity only) Worksheet 4D (FSD? activity only) Milk, white and dark (80% cocoa) chocolate (FSD? activity only) Warm water (FSD? activity only) Timers (FSD? activity only) Foil trays (FSD? activity only)
Lesson 5	To understand the process of evaporation.	In this lesson the children will be asked to focus on the process of a liquid turning into a gas. They will think about the everyday examples of evaporation including puddles 'disappearing' throughout the day as well as the cooling effects of sweat on our skin. They will discuss the differences between evaporating and boiling as well as highlighting the boiling point of water. They are challenged to conduct an investigation into the rates of evaporation and how heat and air can affect them.	 Can children describe the process of evaporation? Can children give an everyday example of water evaporating? Can children describe a way to increase the rate of evaporation? 	Challenge Card 5A (FSD? activity only)

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States of Matter : Science : Year 4



		Learning Objective	Overview	Assessment Questions	Resources
Le	esson 6	To understand the process of condensation.	In this lesson the children will look at the opposite process to evaporation: condensation. They will think about what causes water to condense and look at some examples of this. They are then challenged to recreate a situation where they can see water condensing, including its use in a solar still to remove the salt from sea water.	 Can children name each of the ways a material can change state? Are children able to describe condensation and when it happens? Can children create a diagram to help them explain condensation? 	 Slides Teacher Notes 6A Cling film or other flexible plastic Ice cubes Worksheet 6A/6B/6C Challenge Card 6A (FSD? activity only) Worksheet 6D (FSD? activity only) Salt water (FSD? activity only) Bowls and beakers (FSD? activity only) Small weights (FSD? activity only)
Le	esson 7	To identify the part played by evaporation and condensation in the water cycle.	This final lesson draws upon the children's learning of evaporation and condensation to describe the water cycle. They will look at four simplified steps of the water cycle and how these processes play a part.	 Do children know what the water cycle is? Can children name the different stages of the water cycle? Do children know that evaporation and condensation are processes that can be reversed? 	 Slides Teacher Notes 7A Worksheet 7A/7B Word Bank 7A Water Cycle Diagram 7A (FSD? activity only) Challenge Card 7A (FSD? activity only) Sealable sandwich bags or plastic wallets (FSD? activity only)



Changing Sound : Science : Year 4



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To find out that sounds are made when objects and materials vibrate.	Children will learn about how sounds are created, then explore the way sounds are produced by a variety of instruments or resonant objects.	 Do children know that sounds are made when objects or materials vibrate? Can children make careful observations? Can children draw conclusions about sounds from their observations? 	 Slides Worksheet 1A/1B/1C Variety of musical instruments if available Rice and drum; elastic bands; tuning fork and beaker of water; rulers; stereo speakers (if available) Question Cards (FSD? activity only)
Lesson 2	To investigate whether sounds can travel through different materials.	Children will learn about how sounds travel through different materials. They will give reasons why they think some materials will transmit sound better/ worse than others, then investigate.	 Do children know that vibrations from sound sources travel through different materials to the ear? Do children know sound can travel through solids, liquids and gases? Do children know that some materials allow sound to pass through them more easily than others? 	 Slides Worksheet 2A/2B/2C Drum/cymbal/something else loud! Waterproof buzzer or ticking clock Boxes with lid, water and sand with suitable containers (FSD? activity only) Pre-prepared 'string telephones'
Lesson 3	To explore the relationship between distance and volume.	Children will explore ways in which sounds change as you move further away from its source. They will suggest reasons for their findings.	 Do children know that sounds get fainter as the distance from the sound source increases? Can children carry out an investigation to explore what happens to sound as it gets further away? Can children draw conclusions and describe what they have found out? 	 Slides Worksheet 3A/3B Objects to make sounds Metre sticks, tape measures, etc.
Lesson 4	To find out that some materials are effective in preventing vibrations from sound sources reaching the ear.	Children will learn about why it is sometimes necessary to prevent sounds from travelling, then investigate the soundproofing effectiveness of a range of materials.	 Can children name some of the reasons why preventing sound to travel is sometimes important? Can children plan a test to measure how well different materials muffle sound? Can children draw conclusions about which materials muffle sound the best? 	 Slides Worksheet 4A/4B Buzzers/rattles/ticking clocks Materials to test (e.g. foam sheets, fabric, newspaper, bubble wrap, tin foil, kitchen roll, clingfilm, paper towels, cotton wool, etc.)
Lesson 5	To investigate how sounds can be different pitches and volumes.	Children will learn about pitch and volume, then investigate ways in which they may be altered by a variety of instruments or resonant objects.	 Do children know that the term 'pitch' describes how high or low a sound is? Can children recognise changes in pitch and identify high and low notes? Can children investigate different instruments and make generalisations about pitch? 	 Slides Worksheet 5A/5B/5C Xylophones/glockenspiels Books, CD ROMs, access to internet, etc. Variety of drums (FSD? activity only)
Lesson 6	To find out how the length, thickness and tightness of a string affects its pitch.	Children will consider how the pitch of notes produced by stringed instruments is altered, then investigate further by experimenting with instruments or by making instruments.	 Do children know that the pitch of a stringed instrument depends on the length, thickness and tightness of the string? Can children suggest ways of testing what happens to the pitch of a string when you alter the length, tightness and thickness? Can children draw conclusions from their observations? 	 Slides Worksheet 6A/6B/6C Variety of stringed instruments Elastic bands, boxes, tubes, etc. (FSD? activity only)
Lesson 7	To find out how sounds can be made by air vibrating and how to change the pitch of notes produced by vibrating air.	Children will learn how sounds can be made by air vibrating, then explore ways in which the pitch of these sounds can be altered.	 Do children know that sounds can be made by air vibrating? Can children suggest ways to change the pitch of a sound made by air? Can children describe how to change the length of the air column vibrating to change pitch? 	 Slides Worksheet 7A/7B/7C Empty bottles Water Xylophones/glockenspiels Recorders (FSD? activity only)

Living in Environments : Science : Year 4



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to identify a variety of habitats and explore why organisms live in different habitats.	Children will identify habitats, and consider why their conditions are important for the animals living in them. They will then either describe habitats in their own words, or explore a local habitat.	 Do children know what a habitat is? Can children identify a variety of habitats? Do children know that animals live in habitats that are suited to their needs? 	 Slides Habitat Cards Riddle Cards Animal Cards Worksheet 1A/1B (FSD? activity only)
Lesson 2	To be able to group organisms according to their characteristics.	Children will organise animals into groups according to some of their characteristics. They may then either continue to sort animals according some of their own criteria, or examine some animals and group them based on observations.	 Can children identify similarities and differences between similar organisms? Can children group animals and explain the criteria that has been used to sort them? Can children make careful observations to identify the characteristics of different organisms? 	 Slides Worksheet 2A/2B/2C/2D Animal Cards Pots, trowels, etc. (FSD? activity only) Microscopes/hand lenses (FSD? activity only)
Lesson 3	To be able to classify animals into specific groups according to their characteristics.	Children will use classification keys to identify and sort animals into groups. They may also study a range of sources to find out about a particular group of animals.	 Do children know that animals can be categorised into broad groups according to their characteristics? Can children use a classification key to help them identify which group an animal belongs to? Can children identify a variety of animals that are vertebrates, invertebrates, mammals, amphibians, insects, reptiles, fish and birds? 	 Slides Worksheet 3A Animal Cards A/B/C Animal Classification Key Challenge Cards (FSD? activity only)
Lesson 4	To be able to use a classification key to identify animals.	Children will identify a range of animals from different environments using classification keys. Optionally, they may create and test their own classification keys.	 Can children use a classification key to identify unfamiliar animals? Can children use close observations to identify an animal's characteristics? Can children create their own classification keys to help identify an animal? 	 Slides Worksheet 4A/4B/4C British Animals Classification Key A/B Animal Cards (FSD? activity only)
Lesson 5	To be able to identify and classify a variety of British plants.	Children will use Venn Diagrams and Carroll diagrams to sort plants according to some of their characteristics. Some children may choose their own ways of sorting and classifying plants, too.	 Can children group a variety of plants according to their characteristics? Can children use a classification key to identify plants? Can children use other sources to help them identify a variety of local plants? 	 Slides Worksheet 5A/5B Plant Cards Digital cameras (FSD? activity only) Books, access to internet, etc. (FSD? activity only)
Lesson 6	To explore the human impact on habitats and environments.	Children will consider ways in which animals living in environments are affected by human behaviour, then suggest ways in which we can help protect and sustain habitats.	 Do children know how one change in a habitat can affect all the organisms within that environment? Can children list positive ways in which humans can impact the environment? Can children list negative ways in which humans can impact the environment? 	 Slides Worksheet 6A/6B/6C Scenario Cards

Eating and Digestion : Science : Year 4



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to identify and classify carnivores, herbivores and omnivores.	Children will identify similarities and differences between the diets of different organisms, then sort and describe them using technical vocabulary such as herbivore, carnivore, and omnivore.	 Can children explain why all animals, including humans, need to eat? Can children identify animals that are carnivores, herbivores and omnivores? Can children classify animals according to their diet? 	 Slides Worksheet 1A/1B/1C Animal Cards A/B Books, access to internet, etc. Challenge Cards (FSD? activity only)
Lesson 2	To be able to construct and interpret a variety of food chains.	Children will learn about food chains, then organise a variety of organisms using food chains.	 Do children know what the terms 'producer' and 'consumer' mean in relation to food chains? Can children interpret food chains? Can children construct food chains? 	 Slides Worksheet 2A/2B/2C/2D/2E Organisms Sheet Name Tags (FSD? activity only)
Lesson 3	To identify the different types of teeth in humans and identify their functions.	Children will identify different types of human teeth and their functions. They will then sort, draw, label or describe teeth.	 Can children identify the different types of human teeth? Do children know that the shape of teeth make them useful for different purposes? Can children suggest reasons why animals might have different types of teeth? 	 Slides Worksheet 3A/3B/3C/3D Mirrors (FSD? activity only)
Lesson 4	To explore different ways of keeping teeth healthy.	Children will learn about what happens to teeth during the lifetime of humans, and consider ways in which we can ensure our teeth stay healthy.	 Do children know that humans have two sets of teeth during their lifetime? Can children explain why it is important to look after teeth? Can children describe ways in which people can make sure their teeth stay healthy? 	 Slides Worksheet 4A Poster Template Information Sheet
Lesson 5	To investigate how the digestive system works.	Children will start to learn about the digestive system: its organs and their functions. They will then use a variety of sources to learn more and answer questions.	 Can children ask relevant questions? Can children use different sources of information to find the answers to questions they have asked? Can children name some of the organs associated with the digestive system? 	 Slides Worksheet 5A/5B/5C Fact Cards Additional information sources, e.g. books/posters Question Cards (FSD? activity only)
Lesson 6	To be able to describe the functions of the basic parts of the digestive system.	Children will continue to learn, in greater depth, about the organs of the digestive system and their functions. They will then either draw and label diagrams to show what they have learned, or conduct a digestion experiment.	 Can children name the organs associated with the digestive system? Can children describe the basic functions of the organs associated with the digestive system? Can children describe the process of digesting food? 	 Slides Worksheet 6A/6B/6C/6D Label Cards Help Sheet (FSD? activity only) Equipment for experiment - see Help Sheet (FSD? activity only) End of Unit Quiz

Circuits and Conductors : Science : Year 4



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To identify common appliances that run on electricity.	In this initial lesson the children will discuss what electricity is and how we use it in our day-to-day lives. They will think about which appliances around them use electricity and begin to think about batteries and plugs.	 Are children able to identify common appliances powered by electricity? Can children say what we use electricity for and why it is important? Are children able to describe electricity as a form of energy? 	 Slides Worksheet 1A/1B/1C Sorting Sheet 1A Electricity Hunt Sheet 1A
Lesson 2	To understand how to keep safe around electrical appliances.	This lesson leads a discussion with your class about how we can all stay safe when using electrical devices. The children will have the opportunity to spot potential hazards and discuss how they can be made safe.	 Can children explain some of the dangers of electricity? Are children able to explain the difference between battery and mains electricity? Are children able to say how they can stay safe around electricity? 	• Slides • Worksheet 2A/2B/2C • Poster Template sheet (FSD? activity only)
Lesson 3	To construct simple circuits.	This lesson challenges your class to begin constructing simple circuits with single or multiple components, observing what they see as they do so. The children will learn about what a complete circuit is, as well as the names of different components and short circuits.	 Can children label the components of a circuit? Are children able to construct simple circuits? Can children make observations about simple circuits? 	 Slides Circuits equipment Picture Cards 3A Worksheet 3A/3B Challenge Cards 3A Circuit Cards (FSD activity only)
Lesson 4	To recognise common conductors and insulators.	In this lesson the children will discuss how electricity can flow through, or not flow through, different materials. They will experiment with, and sort materials based on if they are electrical conductors or insulators, making predictions about the materials. Alternatively, they can make a switch using given objects to use as a buzzer in a quiz game.	 Can children set up a fair test? Can children make predictions about whether a material is a conductor or insulator? Are children able to say whether a material is a conductor or insulator? 	 Slides Circuits equipment Worksheet 4A/4B/4C Picture Card 4A Quiz Questions 4A (FSD? only activity)
Lesson 5	To make a simple device which includes a circuit.	In this lesson the children will use all they have learnt about electrical components to create an electrical circuit which will be used to power a simple device. The children will need to work together to discuss and figure out how they can use a circuit in their device.	 Can children create a simple circuit with a switch? Are children able to create a simple, functioning device which uses electricity? Can children troubleshoot and solve problems with their circuit? 	Slides Challenge Card 5A/5B/5C Flexible, thick wire Circuits equipment including bulbs and buzzers Challenge Card 5D/5E (FSD? activity only) Sturdy cardboard (FSD? activity only) Worksheet 5A (FSD? activity only) End of Unit Quiz

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Properties and Changes of Materials : Science : Year 5



	Learning Objective	Overview	Assessment Questions	Resources	
Lesson 1	To know that some materials will dissolve in liquid to form a solution	Children will explore what happens to substances when they are mixed with water. In their independent activities, they will conduct a fair test to find out which substances are soluble, and which are insoluble. In the FSD? activity, children will explore what factors other than temperature can help jelly cubes to dissolve more quickly.	 Do children understand the terms 'dissolve', 'soluble', 'insoluble' and 'solution'? Can children make and explain their predictions about soluble and insoluble materials? Can children conduct a fair test involving soluble and insoluble materials? 	 Slides Beakers, teaspoons, stopwatch, water Sugar, pepper, cooking oil, flour, wax flakes, food colouring Worksheet 1A/1B/1C Challenge Card A/B/C//D (FSD? activity only) Beakers, thermometers, stopwatch, water (warm), jelly cubes, knives, spoons (FSD? activity only) Worksheet 1D (FSD? activity only) 	
Lesson 2	To use knowledge of solids, liquids and gases to decide how mixtures and solutions might be separated	Children will explore ways in which the original materials in some mixtures and solutions may be recovered, by the process of evaporation, or by sieving or filtering. In their independent activities they will use their knowledge and understanding of soluble and insoluble substances to explain how mixtures could be separated.	 Do children know what the terms soluble and insoluble mean? Do children know that evaporation can be used to separate soluble materials from water? Do children know that filtering can be used to separate insoluble materials from water? 	 Slides Worksheets 2A/2B/2C Investigation Cards (FSD? activity only) Worksheet 2D (FSD? activity only) Beakers, water, filter paper, different sizes of sieve, teaspoons, pepper, rice, glitter, marbles, sand, salt, sugar, paperclips (FSD? activity only) 	
Lesson 3	Explain that some changes form new materials, and that these changes are not usually reversible	Children will identify solutions which are the product of irreversible reactions between the substances that were dissolved. They will then carry out practical investigations involving irreversible reactions.	 Do children know that when some materials are mixed together they cannot be separated again? Do children know that when an irreversible change takes place a new substance is produced? Do children know how to tell if the new substance produced is a gas? 	 Slides Worksheets 3A/3B/3C Water, lemon juice, sugar, baking soda, plaster of Paris Worksheet 3D Diet Coke, Mentos (FSD? activity only) Film canister, water, effervescent tablets 	
Lesson 4	To identify when a change caused by heating or cooling is reversible or irreversible	Children will learn about reversible and irreversible changes caused by heating or cooling materials. They will then either predict and sort materials according to what may happen when they are heated or cooled, or explore irreversible reactions by cooking.	 Do children know that heating and cooling materials can cause them to change? Can children recognise reversible and irreversible changes caused by heating and cooling? Can children explain how to reverse a change caused by heating or cooling? 	 Slides Worksheets 4A/4B/4C Recipe Sheet (FSD? activity only) Cooking Safely Poster (FSD? activity only) Ingredients and equipments as listed on Recipe Sheet (FSD? activity only) 	
Lesson 5	To investigate the materials needed for something to burn and the new materials formed by burning	Children will consider what happens when materials are burned, including what new materials are produced. They will carry out investigations involving burning a candle and explain what is happening.	 Do children know that new materials are formed when materials are burned? Can children describe what happens when a candle burns? Can children identify and assess hazards associated with burning materials? 	 Slides Worksheets 5A/5B/5C Candle Video Candle, glasses, safety matches, stopwatch, heat safety mats Teacher Notes (FSD? activity only) Observation Sheet 5A (FSD? activity only) Water, shallow bowl or dish, glasses x3, candle, tea light, tile, safety matches (FSD? activity only) 	
Lesson 6	To compare and group together everyday materials on the basis of their properties	Children will identify and discuss several different properties of a range of materials (conductive, magnetic, soluble, flexible, transparent etc.), then either sort and group given sets of materials, or use their scientific enquiry skills to explore the properties of some materials.	 Can children describe everyday materials according to their properties? Can children compare and group everyday materials according to their properties? Can children explain why some everyday materials are useful due to their properties? 	 Slides Worksheets 6A/6B/6C Materials Cards Activity Cards (FSD? activity only) Batteries, bulbs and wires; magnets; torches; weights; water and a variety of materials to be tested according to their properties (FSD? activity only) 	
Lesson 7	To give reasons for the particular uses of everyday materials in relation to their properties	Children will first recap on the vocabulary used to describe the properties of different materials, before taking a closer look at some of them, and why materials with these properties are used for certain purposes. In their independent activities, children will use their knowledge and reasoning skills to explain how the properties of a material make it useful for a specific purpose.	 Can children list and explain some of the different properties that materials can have? Do children understand that the properties materials have can affect how they are used/what they are used for? Can children explain why a certain material has been chosen for a specific purpose, based on its properties? 	 Slides Worksheet 7A/7B/7C Challenge Cards (FSD? activity only) This vs That Cards (FSD? activity only) Picnic Items Cards (FSD? activity only) Picnic Priorities Sheet (FSD? activity only) 	

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Earth and Space: Science : Year 5



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To describe the movements of the Sun, Earth and Moon.	Children will learn about the celestial bodies of the Sun, Moon and Earth and how they are related to one another. They will learn that each of them are a roughly spherical shape and investigate and define the word 'orbit'. They will use these scientific words in a brief description of the Sun, Earth and Moon's movements around each other.	 Can children describe the Sun, Earth and Moon's shape as roughly spherical? Are children able to clearly define the word orbit? Can children describe the Sun, Earth and Moon's movements in relation to one another? 	 Slides Teacher Notes 1A Worksheet 1A/1B/1C Fact Cards 1A Worksheet 1D/1E (FSD? Activity only) Template 1A (FSD? activity only) Split pins (FSD? Activity only)
Lesson 2	To explore how the rotation of Earth creates day and night.	Children will learn that the rotation of Earth on its axis is what creates day and night. They will conduct an investigation using sundials and make observations on what they record throughout the experiment. Alternatively, they will explore time zones using the internet and how, and why, locations have different time zones.	 Can children explain how the rotation of Earth on its axis creates day and night? Can children explain the apparent movement of the sun across the sky? Can children identify how long it takes Earth to make a full rotation? 	 Slides Worksheet 2A/2B/2C Pencils Sticky-tac Time Zone Cards 2A (FSD? activity only) Access to the internet (FSD? activity only) Question Cards 2A (FSD? activity only) City Cards 2A (FSD? activity only)
Lesson 3	To learn about how Earth's tilt creates seasons.	Children will learn about how the seasons are created because of the tilt of Earth's axis. They will learn how Earth is split into its Northern and Southern Hemispheres and how the seasons are different for the two halves of the planet. They will identify the seasons for the Northern Hemisphere based on the location of Earth in its orbit. Alternatively the children will investigate day length and how it changes seasonally using data and graphs.	 Can children describe the different changes that happen between seasons? Can children use Earth's tilted axis to explain how seasons are created? Can children describe the differences in seasons between two locations in opposite hemispheres? 	 Slides Worksheet 3A/3B Season Labels 3A/3B Statistics Cards 3A/3B (FSD? Activity only) Graph Paper 3A (FSD? Activity only) Worksheet 3C (FSD? Activity only) Question Cards 3A/3B (FSD? Activity only)
Lesson 4	To learn about the phases of the Moon.	Children will be guided through the lunar month and the eight phases of the Moon that can be seen as the Moon orbits Earth. They will learn to identify the shapes of each phase and the names of these shapes, including if the phase is waxing or waning. They will create their own spinning diagram of each of these phases.	 Can children name the different phases of the moon? Are children able to order the phases of the moon? Can children describe how the phases of the moon are created? 	 Slides Teacher Notes Worksheet 4A/4B Split pins Template 4A Moon Cards 4A Moon Cards 4B (FSD? activity only)
Lesson 5	To discover how theories about our solar system have changed.	Children will learn about and discuss how the ideas about the solar system developed and changed over the years until we arrived at the model we have today. The children will compare the similarities and differences between a geocentric and heliocentric model of the solar system.	 Are children able to define what a solar system is? Can children explain what the differences between geo- and heliocentric models of the solar system are? Can children compare the ideas of the solar system we know now, with those held by Ptolemy and Copernicus? 	 Slides Solar System Fact Cards 5A/5B Worksheet 5A/5B/5C Access to the internet (FSD? activity only) Worksheet 5D (FSD? activity only)
Lesson 6	To investigate the planets in the solar system.	Children will conduct their own research into the planets within our solar system. They will discuss the objects in our solar system as a class, including natural satellites, comets, asteroids (and the asteroid belt), planets and dwarf planets. They will work to create their own fact book or model of the solar system.	 Can children name the eight planets in our solar system? Are children able to name the eight planets in order from nearest to farthest from the Sun? Can children use researching skills to find relevant information on a topic? 	 Slides Mnemonic Strip 6A Templates 6A/6B/6C End of of Unit Quiz Flag Template 6A (FSD? activity only) Polystyrene balls (FSD? activity only) Skewer sticks (FSD? activity only)

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Life Cycles : Science : Year 5



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To describe the process of sexual reproduction in flowering plants.	Children will recap the names of parts of a flower and learn about how flowering plants reproduce sexually. They will then either label diagrams of flowering plants or dissect flowers.	 Can children name and describe the functions of the main parts of flowers? Can children describe the life process of sexual reproduction in flowering plants? Can children identify and label the parts of flowers? 	 Slides Worksheets 1A/1B/1C Dissecting Flowers (FSD? activity only) Double-sided sticky tape, tweezers, flowers (FSD? activity only)
Lesson 2	To describe the process of asexual reproduction in plants.	Children will learn about some ways in which non- flowering plants reproduce asexually, then either describe one of these processes in their own words or grow plants from cuttings.	 Do children understand what asexual reproduction is? Can children explain some ways in which plants reproduce asexually? Can children describe the life cycles of some asexually reproducing plants? 	 Slides Worksheets 2A/2B/2C Growing Cuttings (FSD? activity only) Plant Picture Cards Word Bank
Lesson 3	To describe the process of sexual reproduction in animals.	Children will learn about sexual reproduction in animals, including some ways in which some reptiles and fish reproduce. They will then either sort and classify animals, or compare their life expectancies and gestation periods.	 Can children define some of the ways in which sexual reproduction in animals occurs? Can children compare species that reproduce in different ways and consider reasons why? Can children record data using scientific graphs and/or diagrams? 	 Slides Worksheets 3A/3B/3C Animal Fact Cards Animal Offspring (FSD? activity only)
Lesson 4	To observe and compare the life cycles of animals in our local environment with other animals around the world.	Children will study and compare the life cycles of animals living in a variety of environments. They will then either research animals living in different environments, or compare the life cycles of two animals living in different environments.	 Can children describe the conditions in a local environment as well as other environments around the world? Can children establish causal links between the life cycle of animals and their environment? Can children compare the life cycles of animals living in different environments? 	 Slides Challenge Card Books, atlases, CD ROMs, internet etc. Comparing Life Cycles (FSD? activity only)
Lesson 5	To compare how different animals reproduce and grow.	Children will learn more about the life cycles of animals, focussing on gestation periods and growth. They will then explain the life cycles of animals in their own words, using technical vocabulary.	 Using scientific vocabulary, can children explain some of the ways in which different animals reproduce? Can children compare the life cycles and methods of reproduction of different animals? Are children able to give reasons for the differences between life cycles of different animals? 	 Slides Picture Book 5A/5B/5C Animal Fact Cards Write A Class Book! (FSD? activity only)
Lesson 6	To find out about the work of naturalists.	Children will learn about the work of naturalists and animal behaviourists, then research and write in- depth about a well-known naturalist.	 Do children understand what naturalists do? Can they explain why the work of naturalists is important? Can children give reasons why secondary sources of scientific evidence cannot always be trusted? 	 Slides Worksheets 6A/6B/6C Famous Naturalists (FSD? activity only)

Changes and Reproduction : Science : Year 5



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To recognise the stages of growth and development in humans.	Children will learn about, then order, the main stages in the life cycle of humans. They will then consider and describe factors which may affect the rate of growth in humans.	 Can children name the main stages in the life cycle of humans? Can children correctly order the main stages? Can children broadly define the age ranges for each of the main stages? Can children explain some of the physical changes that occur at different stages in the life cycle of humans? 	 Slides Worksheets 1A/1B/1C Newborn Baby worksheet (FSD? activity only) Books, websites etc. about babies (FSD? activity only)
Lesson 2	To know the stages in the gestation period of humans and compare them to other animals.	Children will learn about sexual reproduction, fertilisation and pregnancy for humans. They may then compare the gestation periods of humans with other animals.	 Can children describe the main stages of gestation in humans? Can children explain how embryos and fetuses grow and develop in the womb? Can children define and use key vocabulary to describe gestation in humans? 	 Slides Worksheets 2A/2B/2C Gestation Periods cards (FSD? activity only) Sticky notes and digital cameras (FSD? activity only)
Lesson 3	To recognise the stages of development during childhood and understand the needs of children at those stages.	Children will learn about changes during infancy and childhood, then consider the needs of children, and how these change over time as they develop.	 Can children describe the needs of a newborn baby? Can they compare the needs of a human baby to those of other mammals? Can they describe the stages of development that occur during childhood? Can they describe how the needs of humans change at different points in their life cycle? 	 Slides Worksheets 3A/3B/3C Childhood Fact Sheet (FSD? activity only) Typical Day Agenda worksheet (FSD? activity only)
Lesson 4	To understand the initial changes inside and outside of the body during puberty.	Children will learn about the roles of some hormones in the body, and how they affect changes in boys and girls at the start of puberty. They will also identify and describe or label changes that occur inside and outside the body.	 Can children explain the initial changes that occur inside and outside the body at the start of puberty? Can children correctly identify the parts of the body that change during puberty? Can children explain in simple terms the role played by hormones in the growth of humans and other animals? 	 Slides Worksheets 4A/4B/4C Puberty: Initial Changes Comic Strip (FSD? activity only)
Lesson 5	To know the changes that occur during puberty and how they differ for boys and girls.	Children will learn about later changes during puberty and adolescence, including sperm production and menstruation. They will then consider and describe ways in which children can stay fit and healthy during puberty.	 Can children remember some of the initial changes during puberty? Can children explain some of the ways in which boys' and girls' bodies start to differ during puberty? Can children suggest some ways in which teenagers can look after themselves and stay fit and healthy during puberty? 	 Slides Worksheets 5A/5B/5C Keeping Fit Puberty Problems (FSD? activity only)
Lesson 6	To understand how the body changes during adulthood and old age.	Children will learn about some changes in the body that occur during adulthood and old age. They may then either describe ways in which they may change as they get older, or discuss some problems associated with stereotypical views regarding the elderly.	 Can children explain some ways in which the body changes during old age? Can children describe some ways in which older people can stay fit and healthy? 	 Slides Worksheets 6A/6B/6C Photographs of children in your class (optional) Old-age Stereotypes (FSD? activity only)

Forces in Action : Science : Year 5



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.	Children will consider what weight is, and how the impact caused by falling objects can vary, depending on their size, shape, mass, and the height they fall from.	 Can children explain why objects fall towards the centre of the Earth? Do children understand the causal link between the mass of an object and the amount of force with which gravity acts on it? 	 Slides Worksheets 1A/1B/1C Large trays, flour, cocoa/chocolate powder, marbles, ball bearings, golf balls etc. Challenge Cards (FSD? activity only) Books, internet etc. (FSD? activity only)
Lesson 2	To identify the effects of friction acting between moving surfaces.	Children will learn about what friction is and some ways in which it can be measured. They will also identify instances of high and low friction and conduct friction investigations.	 Can children define friction? Do children know that friction can be useful and give some examples? Can children carry out an investigation, making sure that it is a fair test? 	 Slides Worksheets 2A/2B/2C/2D Forcemeters Variety of surfaces to test Rubbers (FSD? activity only) Challenge Sheet (FSD? activity only)
Lesson 3	To identify and explain the effects of air resistance.	Children will learn about ways in which air resistance affects moving objects, then plan and conduct investigations where they will determine how air resistance affects falling objects.	 Do children know that air resistance is a force that slows objects moving through the air? Can children plan, carry out and assess experiments to investigate air resistance? Can children draws conclusions from their investigations? 	 Slides Worksheets 3A/3B/3C/3D Plastic Bag Parachute sheet Plastic bags, string/wool, paper clips, rubber bands Spinner Template (FSD? activity only)
Lesson 4	To identify and explain the effects of water resistance.	Children will learn about water resistance and how it affects objects moving through water. They will then conduct water resistance investigations.	 Do children know that water resistance slows an object moving through water? Can children plan and carry out an experiment, making sure it is a fair test? Can children identify trends in results and draw conclusions? 	 Slides Worksheets 4A/4B/4C/4D Measuring cylinders or equivalent Water Plasticine Stopwatches Results Sheet (FSD? activity only)
Lesson 5	To recognise that levers and pulleys allow a smaller force to have a greater effect.	Children will learn how simple machines can make it easier to move objects. They will then make and test models which have pulleys or levers.	 Do children recognise that that levers and pulleys allow a small force to have a greater effect? Can children make and improve models that use pulleys or levers? Can children explore the effects of changing parts of their model? 	 Slides Worksheets 5A/5B/5C Lollipop sticks, rubber bands (FSD? activity only) Lolly Stick Catapult sheet (FSD? activity only) Marshmallows or play dough (FSD? activity only) Milk/water bottles with handles String, cord or thin rope Broomsticks or thick dowel rods
Lesson 6	To recognise that gears allow a smaller force to have a greater effect.	Children will learn about how gears work together in transmissions and look at a variety of transmission. They will then make models to explore in greater depth how gears work.	 Do children recognise that the speed or amount of force transmitted is affected by changing the size of the gears in a transmission? Can children make transmissions where two or more gears work together? 	 Slides Worksheets 6A/6B/6C Cut-out Gears Types of Transmission sheet (FSD? activity only)

Healthy Bodies : Science : Year 6



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To find out how scientific ideas about food and diet were tested in the past and how this has contributed to our knowledge of a balanced diet.	Children will learn about historical health problems caused by poor diet, and how the work of scientists such as James Lind helped develop a better understanding of how diet affects health. They will then consider and describe how medical tests and trials might be conducted, or improved.	 Can children describe some examples of how doctors in the past tested ideas about food and diet? Do children know how these tests in the past have affected our ideas about healthy eating today? Do children know that in order to be healthy we need a balanced diet which includes different food groups? 	 Slides Worksheet 1A/1B/1C/1D Information Sheet Question Cards (FSD? activity only)
Lesson 2	To investigate some different food groups and find out why a variety of foods is important for a healthy diet.		 Can children name some of the different food groups? Do children know which types of foods are included in different food groups? Do children know why each different food group is important for a healthy lifestyle? 	 Slides Worksheet 2A/2B/2C/2D/2E Information Sheet Food Label Cards (FSD? activity only)
Lesson 3	To find out how nutrients and water are transported in the human body.	Children will learn about the functions of the heart, lungs and circulatory system, then either draw and label diagrams, or perform a heart dissection to study its internal structure.	 Do children know that the circulatory system transports blood and nutrients to the different parts of the body? Can children describe how the circulatory system works? Can children record their own resting pulse rate accurately? 	 Slides Worksheet 3A/3B Label Cards Heart Dissection Sheet (FSD? activity only) Equipment for dissection as listed on sheet (FSD? activity only)
Lesson 4	To investigate what happens to the heart when we exercise and why.	Children will learn about what happens to the heart when we exercise, then conduct practical investigations where heart rate is measured.	 Can children describe the functions of the heart? Can children investigate how the heart is affected through exercise and draw conclusions? Do children know that hearts need to have exercise to stay healthy? 	Worksheet 4A/4B/4C/4D
Lesson 5	To investigate how muscles move the skeleton and how muscle activity requires increased blood flow.	Children will learn about how muscles work, and how they work in groups to move the skeleton. They will then explore in greater depth how blood flow increases to different muscle groups during different types of exercise.	 Do children know that muscles work in pairs to move different parts of the skeleton? Do children know that when muscles exercise they need an increased flow of blood because the muscles are working harder? Can children explain why their pulse rate increases when they exercise? 	 Slides Worksheet 5A/5B/5C Human Muscles Diagram
Lesson 6	To investigate the effects of tobacco, alcohol and other drugs.	Children will learn about what drugs are, how some are helpful and some are harmful. They will also consider ways in which drugs have side effects. Following this, children may explain differences between drugs, or their effects, in their own words.	 Do children know that drugs affect the way the mind or body works? Do children know that some drugs are beneficial even though they may have unpleasant side-effects? Are children aware of some of the negative effects of tobacco and alcohol on the body? 	 Slides Worksheet 6A/6B/6C Information sources Challenge Cards (FSD? activity only)
Lesson 7	To evaluate what we can do to keep our bodies healthy.	In the light of prior learning about the functions of the human body, children will gather their ideas about staying healthy, and present them in a variety of ways. They will also do an end of unit quiz.	 Can children describe the impact that diet has on the body? Can children describe why exercise is important for a healthy lifestyle? Can children describe the harmful effects some drugs can have on the body? 	 Slides Worksheet 7A/7B Profile Cards Challenge Card (FSD? activity only) Video cameras (FSD? activity only) End of Unit Quiz

Seeing Light : Science : Year 6



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To recall facts about how shadows are formed.	Children revisit their knowledge about how shadows are formed and the objects which create them. They focus specifically on the shapes of the shadows and why shadows are the shape of the object which creates them.	 Are children able to identify light sources and describe how light travels? Can children use their knowledge of how light travels to explain how a shadow is created? Can children explain why a shadow takes the shape of the object casting it? 	 Slides Worksheet 1A/1B/1C Word Bank 1A Shadow Puppet Sheet 1A (FSD? activity only) Light sources e.g. torches and plain paper (FSD? activity only)
Lesson 2	To investigate how we can change shadows.	Children conduct an investigation into how we can change and manipulate shadows 'shape, length, intensity and in particular, size. They conduct an experiment, identifying the key variables, and observe the results. They then draw conclusions from their results.	 Can children give a clear, scientific description of translucent, transparent and opaque and how this property affects an object's shadow? Are children able to describe and explain how an object's shadow can be manipulated? Can children make informed conclusions from their investigations? 	 Slides Challenge Cards 2A/2B/2C Worksheet 2A/2B/2C/2D Light sources e.g. torches, lamps etc. Investigation Cards 2A (FSD? activity only)
Lesson 3	To understand how our eyes allow us to see.	In this lesson the class will take a closer look at the anatomy of our eyes and how the different parts allow us to see. The children will complete diagrams to explain and identify the different parts of the eye.	 Can children name the parts of the eye? Can children describe what the main parts of the eye do to help us see? Do children understand that without light, we cannot see? 	 Slides Worksheet 3A/3B/3C Eye Diagram 3A Word Bank 3A Answer Cards 3A (FSD? activity only) Question Strips 3A (FSD? activity only)
Lesson 4	To understand how we see objects.	This lesson will teach the children that all objects reflect and absorb different amounts of light. They will discover that it is these reflections that allow us to see objects. They will complete diagrams of how we can see different objects and write explanations of the process.	 Can children name the parts of the eye and briefly describe what the main parts do? Can children complete a diagram to show how light allows us to see an object? Do children understand that all objects reflect an amount of light? 	 Slides Worksheet 4A/4B/4C Mirrors (optional) Diagram Cards 3A (FSD? activity only)
Lesson 5	To investigate reflection.	Children will learn about the law of reflection and use their knowledge and understanding of identifying and measuring angles to predict reflected light rays. They will identify the angle of incidence and reflection and use these to complete a light maze.	 Can children give a scientific definition of the word 'reflect'? Do children understand that the angle of incidence is equal to the angle of reflection? Can children think of examples of how angled mirrors can be used in different ways? 	 Slides Light Maze Light Angles Poster 5A Mirrors, protractors, torches Teacher Notes Instructions Sheet 5A & Template 5A (FSD? activity only) Worksheet 5A (FSD? activity only)
Lesson 6	To learn about refraction	Children will learn about how refraction can bend and change the direction of light rays. They will then need to differentiate between whether or not an object will reflect or refract light.	 Can children give a brief description of what happens to light when it's refracted? Are children able to differentiated between if an object will reflect or refract light? Can children give some examples of objects which use refraction in a useful way? 	 Slides Sorting Cards 6A/6B Worksheet 6A/6B What if? Cards 6A (FSD? activity only) Any text e.g. a newspaper, clear plastic, water (FSD? activity only)
Lesson 7	To investigate the colours in white light.	Children will investigate how white light can be split into the seven colours of the rainbow. They will find out about Isaac Newton's experiments with prisms and discuss how we see colours.	 Do children understand that white light can be split into a spectrum of seven colours? Are children able to name the seven colours that light can be split into? Can children explain how the light is refracted based on the colours' wavelengths? 	 Slides Worksheet 7A/7B/7C Prisms, light sources and coloured pencils/pens Newton Colour Wheel Video (FSD? activity only) Instruction Sheet 7A (FSD? activity only) String and thick cardboard/polystyrene circles (FSD? activity only)

Classifying Organisms : Science : Year 6



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To recap ways of grouping organisms according to their characteristics.	Children will learn about some of the broad groups used to classify animals, then identify, sort or describe organisms within those groups according to some of their characteristics.	 Do children know that organisms can be grouped according to their characteristics? Can children describe the characteristics of different classifications of animals? Can children match animals to their group according to their characteristics? 	 Slides Worksheet 1A/1B Classification Key Animal Cards A/B Challenge Cards A/B (FSD? activity only)
Lesson 2	To explore ways of distinguishing between organisms that have similar characteristics.	Children will consider ways in which animals which belong to the same broad group can be distinguished and further classified.	 Can children classify organisms according to broad characteristics? Can children find ways to distinguish between organisms that are similar? Can children use appropriate scientific vocabulary to describe organisms and their features? 	 Slides Worksheet 2A/2B Insect Cards Bird Cards Mammal Cards Flowering Plant Cards A/B (FSD? activity only)
Lesson 3	To be able to classify plants according to their characteristics.	Children will learn some ways in which plants are classified by botanists, then take photos, collect samples, or research, then classify plants.	 Do children know that plants can be sorted into groups according to their characteristics? Can children explain the difference between vascular and non-vascular plants? Can children explain the difference between flowering and non-flowering plants? 	 Slides Worksheet 3A/3B/3C/3D Plant Cards - optional Digital cameras - optional Plant books, access to internet, etc.
Lesson 4	To find out about Carl Linnaeus and his classification system.	Children will learn about the development of Linnaeus' classification system, then use it to help them identify, classify, and answer questions about a number of different organisms.	 Do children know who Carl Linnaeus is and how he contributed to science? Do children know that animals can be assigned to specific groups based on their characteristics? Can children give reasons for why classification systems are important? 	 Slides Worksheet 4A/4B/4C Animal Classification System - Examples of Reptiles Animal Classification System - Examples of Mammals Animal Families sheets (FSD? activity only) Question Sheet (FSD? activity only) Challenge Card (FSD? activity only)
Lesson 5	To explore what micro- organisms are and how they can be grouped.	Children will learn about some ways in which micro- organisms are classified, and what they need to survive. Following this, they may either write in- depth about micro-organisms, or conduct an experiment to determine what food a micro- organism prefers.	 Do children know what micro-organisms are? Do children know that micro-organisms can be classified into groups? Do children understand that some micro-organisms can be harmful and others can be helpful? 	 Slides Worksheet 5A/5B/5C/5D Yeast Experiment Sheet (FSD? activity only) Equipment and ingredients as listed on the Yeast Experiment sheet (FSD? activity only)
Lesson 6	To be able to identify and classify organisms in the local area.	Children will either look at a local environment, or study one in another country. They will identify and classify organisms in that environment.	 Can children identify a variety of different organisms found in their local environment? Can children classify a variety of organisms appropriately? Can children use a variety of sources of information to identify organisms they are unfamiliar with? 	 Slides Worksheet 6A/6B Classification Cards Clipboards Magnifying glasses Digital Cameras Books, internet, posters, etc.

Evolution and Inheritance : Science : Year 6



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.	Children will learn about traits that are passed from one generation by the next, and consider ways in which in which some inherited characteristics may vary. They may then identify ways in which families or groups of people have some similar or shared characteristics.	 Do children recognise that animals produce offspring that are like themselves? Can children explain why variation in offspring occurs? 	 Slides Worksheets 1A/1B/1C Family Traits Inherited Characteristics (FSD? activity only)
Lesson 2	To identify how animals and plants are adapted to suit their environment in different ways.	Children will learn about how random mutations may or may not be passed from one generation to the next, and how this process results in variation. They will then consider whether certain variations are advantageous, giving reasons why.	 Can children describe the conditions of an environment? Can children identify characteristics which help an organism to be well suited to its environment? Do children understand why different organisms in the same environment may have different characteristics? 	 Slides Worksheets 2A/2B/2C Environment Posters Advantageous Adaptations sheet (FSD? activity only)
Lesson 3	To understand that adaptation of plants and animals to suit their environment may lead to evolution.	Children will learn about how, if traits are advantageous to a species, they may be passed on and that evolution can occur. They may then undertake some of a range of activities where they will identify advantageous traits of species, learn more about evolutionary scientists, or sequence description of evolutionary processes.	 Do children know that not all inherited characteristics are advantageous? Can children explain why advantageous characteristics are more likely to be passed from generation to generation? Do children understand that whole species can evolve in this way? 	 Slides Task Charts 3A/3B/3C Task Instructions Task Resources A-F
Lesson 4	Evolution and Inheritance: Darwin	Children will learn about the contributions of ancient Greek scientists to our understanding of evolution. They will also study in greater depth the work of Carl Linnaeus and, particularly, that of Charles Darwin.	 Do children know that our understanding of process of evolution has developed over time? Can children share what they have learned about the process of evolution? Can children share what they have learned about the life and work of Charles Darwin? 	 Slides Worksheets 4A/4B/4C Evolution Questions (FSD? activity only)
Lesson 5	To recognise that living things have changed over time and that a number of factors can affect a species' evolution.	Children will learn about mutations, and how external factors can affect the evolution of a species. They will then either summarise their learning about how the fossil record provides evidence of this, or summarise given technical vocabulary in their own words, drawing on prior knowledge and learning.	 Do children understand that a species can change over time due to mutations? Do children understand that a species can change over time due to external factors such as competition from other species, disease or climate change? 	 Slides Worksheets 5A/5B/5C The Fossil Record Audio recorders (optional) Evolution and Inheritance Game (FSD? activity only) Die/Spinner, timer (FSD? activity only)
Lesson 6	To understand how humans have evolved over time, and how human behaviour can affect change in species over time.	Children will learn about human adaptations which allow us to thrive, then consider some impacts of human behaviour on other species. They will then either discuss these impacts in greater depths, or discuss some beliefs and misconceptions about evolution.	 Do children know that primate species (including humans) have changed over time? Can children explain some ways in which human behaviour has changed the characteristics of other species? Can children identify positive and negative consequences of this human behaviour? 	 Slides Worksheets 6A/6B/6C Evolution Discussion Cards

Changing Circuits : Science : Year 6



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To recap what electricity is and investigate static electricity.	In this initial lesson your class will recap their knowledge and understanding of electricity before discussing what static electricity is and how it can affect other things. They will either answer questions about electricity or investigate static electricity in different ways.	 Can children distinguish the differences between static and current electricity? Can children describe what electrical charge is? Can children give an example of where static electricity might be generated? 	 Slides Worksheet 1A Question Cards 1A/1B Balloons Static Electricity Investigation Cards 1A (FSD? activity only) Observation Sheet 1A (FSD? activity only) Equipment listed on investigation cards (FSD? activity only)
Lesson 2	To recap our knowledge and understanding of circuits.	In this lesson the children will focus more on their understanding of circuits, including parallel circuits. They will build and explore circuits and their components, discussing why some circuits will work and others won't.	 Do children know what the main components of a circuit are? Do children recognise what the difference between a series and a parallel circuit is? Can children draw and/or construct working circuits? 	 Slides Worksheet 2A/2B/2C Wires, batteries, bulbs/motors, switches (FSD? activity only) Circuit Cards 2A (FSD? activity only) Sticky notes
Lesson 3	To be able to recognise and use conventional symbols for circuits.	The children are challenged to match known circuit components to their corresponding circuit symbol. They will build circuits from diagrams and draw their own.	 Do children know why symbols are used to draw circuit diagrams? Can children recognise the symbols for various common circuit components? Can children use conventional circuit symbols to draw and/ or construct circuits? 	 Slides Worksheet 3A/3B/3C Circuit Cards 3A (FSD? activity only) Wires, batteries, bulbs, buzzers, switches, motors (FSD? activity only) Camera - optional (FSD? activity only)
Lesson 4	To investigate ways in which the brightness of a bulb or speed of a motor is changed.	Children investigate how the number of components and batteries affects the voltage in a circuit and so affects how brightly a bulb will shine. They will use their knowledge of circuit symbols to draw and discuss different circuits and suggest which may potentially overload the components, breaking them.	 Do children know that the brightness of a bulb or the speed of a motor can be changed in a circuit? Do children know that the brightness of a bulb or speed of a motor depends on how much power is supplied to each component? Do children know that bulbs and motors will blow out if too high a voltage is used? 	 Slides Worksheet 4A/4B/4C/4D Question Cards 4A (FSD? activity only) Batteries, bulbs/motors, wires, switches (FSD? activity only)
Lesson 5	To be able to plan, carry out and evaluate an experiment to see how changing the wire in a circuit affects the brightness of a bulb.	After investigating how the number of batteries and bulbs in a circuit affect bulb brightness, your class will plan and conduct an investigation to see how different wires can affect the brightness of a bulb. The children will look at improving an existing investigation as well as discussing anomalous results in experiments and how we can spot them.	 Do children know that the brightness of the bulb in a circuit can be altered by changing the wires? Can children suggest questions to investigate, decide what to do and what equipment to use to test the question? Can children make fair comparisons and draw conclusions from their results? 	 Slides Worksheet 5A/5B/5C Batteries and bulbs Different thicknesses of fuse wire Worksheet 5D (FSD? activity only) Results Sheet 5A (FSD? activity only)
Lesson 6	To create a simple device using a circuit.	In this final lesson the children will put their knowledge and understanding of electricity and circuits to the test as they make their own burglar alarms or other devices.	 Can children design a simple circuit for a purpose? Are children able to build a working circuit for a purpose? Can children use their knowledge of circuits and components such as switches to create more complex circuits? 	 Slides Challenge Card 6A/6B Worksheet 6A Device Cards 6A Circuit equipment Pegs, aluminium foil, craft wire, paper tubes, cardboard Challenge Card 6C (FSD? activity only) End of Unit Quiz

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NB: 'FSD? activity only' refers to the alternative 'Fancy Something Different...?' activity within the lesson plan www.planbee.com