



Science

Everyday Materials

Testing Properties



Aim

- I can identify which materials have certain properties.

Success Criteria

- I can identify which materials the objects are made from.
- I can test materials to see how they behave.
- I can choose words which describe how materials behave.

Properties



Think back to our last lesson. How many different properties can you remember? Talk to your partner.



Keywords



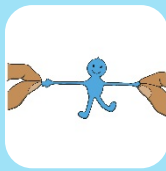
Can you remember the keywords?



hard



soft



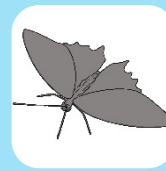
stretchy



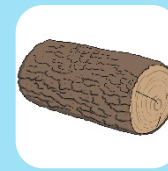
stiff



shiny



dull



rough



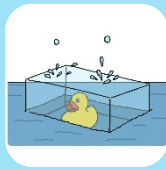
smooth



bendy



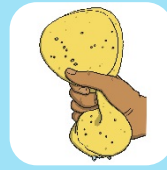
not bendy



waterproof



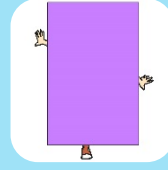
not
waterproof



absorbent



not
absorbent



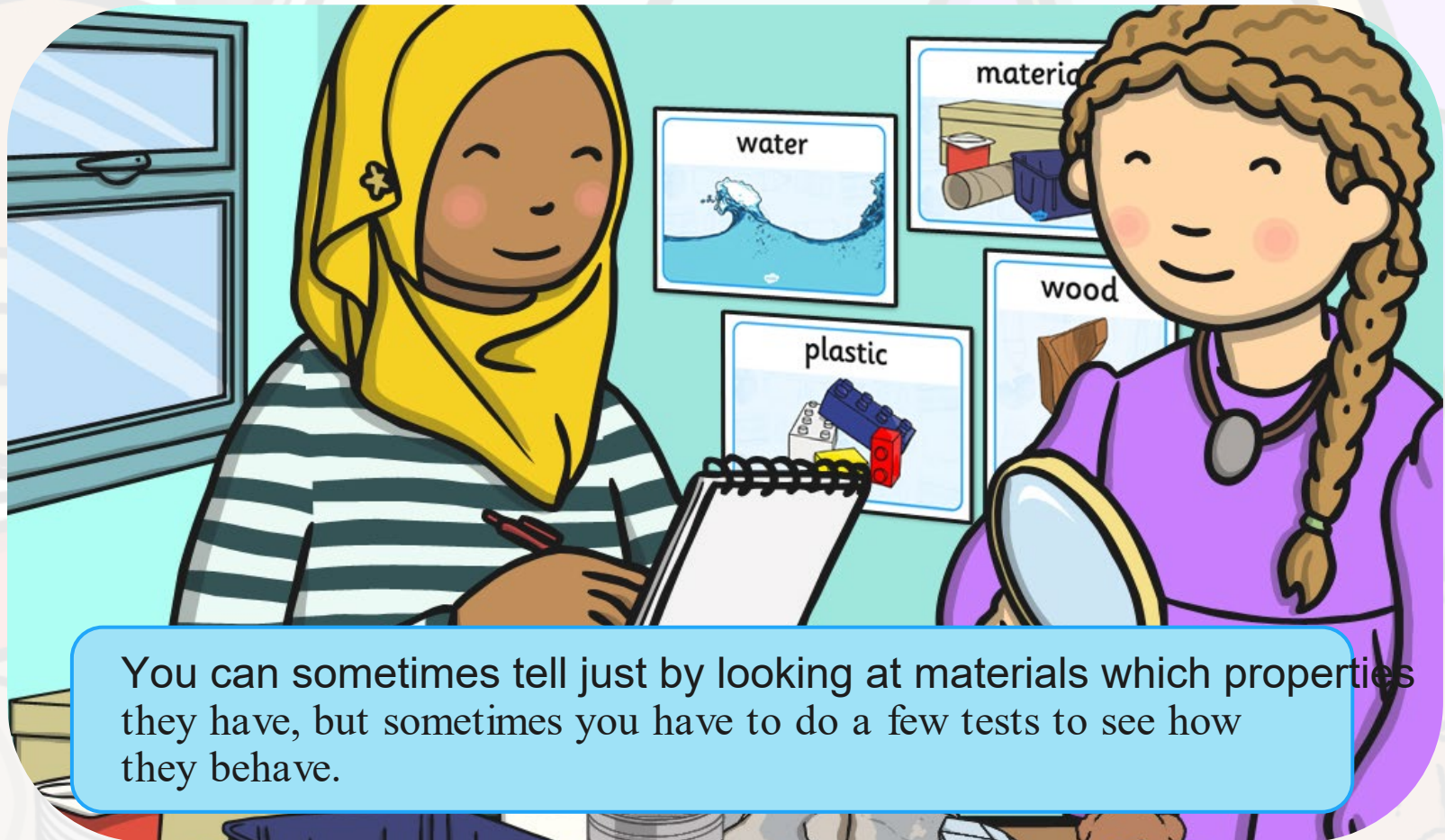
opaque



transparent

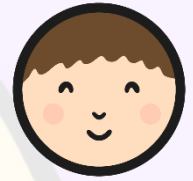
Click to reveal the keyword.

How Materials Behave



You can sometimes tell just by looking at materials which properties they have, but sometimes you have to do a few tests to see how they behave.

Property Testing



★ Property Test

Gently test the objects to see if they are bendy or not, write a tick in the right box.

Object	Material's object is made from	
straw		
spoon		
table		
tape measure		
elastic band		

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★★★ Property Test

Test the objects, write what the object is made from and then put a tick in the right box.

Object	Material's object is made from	
wellies		
t-shirt		
paper		
rubber gloves		

Object	Material's object is made from	
window		
cardboard box		
plastic bottle		
tin can		

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★★★ Property Testing

○ ○ ○

Test the objects, write what the object is made from and then put a tick in the right box.

Object	Material's object is made from	Waterproof	Not waterproof
wellies			
t-shirt			
paper			
rubber gloves			

Object	Material's object is made from	Absorbent	Not absorbent
notebooks			
sock			
towel			
paper			

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Property Testing Results



- What did you do?
- What did you find out?
- Did anything surprise you?
- Why?



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Everyday Materials | Testing Properties














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Everyday Materials: Testing Properties

Aim: To describe the simple physical properties of a variety of everyday materials by testing different objects. I can identify which materials have certain properties.	Success Criteria: I can identify which materials the objects are made from. I can test materials to see how they behave. I can choose words which describe how materials behave.	Resources Lesson Pack Pencils
	Key/New Words: Behave, test, record.	Preparation: Differentiated Property Testing Activity Sheet - 1 per child Gather a selection of materials and objects made of different materials. Shallow containers filled with water.

Prior Learning: Children will have looked at materials and described some of their properties in lesson 3.

Learning Sequence

	Properties: Children talk to a partner and think of as many properties of materials as they can.	
	Keywords: Display the words on the Lesson Presentation - how many of these properties did children remember? Can anyone explain what any of the words mean?	
	How Materials Behave: Read through the information and discuss how some properties are easier to identify than others (e.g. <i>it's easy to see if something is shiny or dull just by looking at it</i>). Model how to test to see if something is waterproof, transparent or opaque or absorbent. Can children choose words which describe how materials behave?	
	Property Testing: Children use the differentiated Property Testing Activity Sheets to test each material and record their findings. Explain that they are testing the properties of materials by looking at objects that are made from that material. Are children able to test materials to see how they behave? <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Children test whether materials are bendy or not. Support children with filling in the grid and to identify the material/s the objects are made from.</p> </div> <div style="text-align: center;">  <p>Children test whether materials are waterproof and transparent or opaque. Support the children to identify the material/s the objects are made from.</p> </div> <div style="text-align: center;">  <p>Children test whether materials are waterproof and absorbent. Support the children to identify the material/s the objects are made from.</p> </div> </div>	
	Property Testing Results: Discuss what children discovered. Which materials were bendy, waterproof and absorbent? Which materials were transparent and opaque? How did you test them to find out? Discuss which materials the objects are made from. For example, Why are windows transparent? Which material are they made from?	

Taskit

Suggestit: Children suggest what different materials could be used for.

Explainit: Children explain why different materials would be suitable for some uses and unsuitable for others.