










# Coding with Scratch: Questions and Quizzes: Let's Quiz!

<p><b>National Curriculum</b> Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</p>		<p><b>Lesson Duration</b> It is estimated that this lesson will take approximately 60 minutes.</p> 
<p><b>Aim</b> To understand how to use and compare different types of quizzes.</p>		
<p><b>Success Criteria</b> I can take part in a quiz. I can identify what makes a successful quiz. I can identify the pros and cons of different types of quizzes. I can identify the difference between open and closed questions.</p>	<p><b>Key Vocabulary</b> Cons, contestant, debug, evaluate, multiple-choice, online, open and closed questions, pros, quiz, software.</p>	
<p><b>Resources</b> <a href="#">Lesson Pack</a></p> <hr/> <p>PC devices, such as laptops, Chromebooks and/or tablets</p>	<p><b>Preparation</b> In order to activate prior knowledge and develop a purpose for learning through interests, we recommend you begin the</p>	

**Prior Learning:** It would be helpful if children have accessed basics, especially understanding how repetitive and are familiar with Scratch nested loops.

## Learning Sequence

	<p><b>Knowledge Organiser:</b> Introduce the topic and <a href="#">Knowledge Organiser</a>. Explain that the <a href="#">Knowledge Organiser</a> has all the key information and vocabulary that the children will need to learn and understand by the end of this unit. Look through this together discussing what they already know and underline words that they don't yet know. We recommend completing one per pair at LKS2.</p>	
	<p><b>Quizzes:</b> Using the <a href="#">Lesson Presentation</a>, ask the children questions related to what quizzes are and the different types of quizzes they may encounter.</p>	
	<p><b>Open and Closed Questions:</b> Using the <a href="#">Lesson Presentation</a>, discuss the difference between open and closed questions. The children will then work in pairs to complete the <a href="#">Open and Closed Questions Activity Sheet</a>. Discuss the answers together on the following slide. <b>Think about the different quizzes looked at today. Which questions would be best suited for each type of quiz and why?</b></p>	
	<p><b>Let's Quiz:</b> Using the <a href="#">Lesson Presentation</a>, the children can work in teams, pairs or individually to access a variety of Twinkl's online and paper-based quizzes. A list of features are included for the children to look for when playing their quizzes. This _____ is a good paper-based quiz to try.</p>	

	<p><b>Which Quiz?:</b> Using the <a href="#">Lesson Presentation</a> and the <a href="#">Quiz Review Activity Sheet</a>, ask the children to think about the pros and cons of using a paper-based quiz and an online quiz. Once completed, allow the children to discuss and contribute their thoughts to the whole class.</p>				
	<p>Children are given a table to complete, identifying the pros and cons of the quizzes they have played. They are then asked which was their favourite type.</p>		<p>Children will complete a table, deciding on the pros and cons of each given quiz type and features. They will then complete the questions which relate to the quiz features.</p>		<p>Children complete the empty table provided on the pros and cons of the quizzes completed. They will then answer specific questions which relate to their opinions of the quiz types.</p>
	<p><b>Twinkl Needs You!:</b> Using the <a href="#">Lesson Presentation</a>, introduce the children to the project they will be completing as part of the Questions and Quizzes unit.</p>				
	<p><b>Identify the Blocks:</b> Using the <a href="#">Lesson Presentation</a>, ask the children to analyse the blocks and offer suggestions as to which blocks they think may be useful for creating a quiz and why.</p>				

**Exploreit**

**Createit:** Ask the children to create their own paper-based quiz on a topic of their choice. They can choose from the many different formats discussed in the lesson, such as multiple-choice, filling in the blanks, numerical or true or false.

**Playit:** Work together as a class to complete these online Twinkl Quizzes: \_\_\_\_\_ and \_\_\_\_\_

**Assessment Notes:**



# Computing

## Coding with Scratch: Questions and Quizzes

Coding  
with Scratch

# Let's Quiz!



# Question Marks

**This is Quizby.  
He is a question mark who  
loves to ask questions.**



When you see a question mark icon like this in the **Lesson Presentation**, it can be clicked on to reveal one of Quizby's questions.



The questions that appear next to these question marks will help you to think about the key learning throughout the lesson.

## **Aim**

- To understand how to use and compare different types of quizzes.

## **Success Criteria**

- I can take part in a quiz.
- I can identify what makes a successful quiz.
- I can identify the pros and cons of different types of quizzes.
- I can identify the difference between open and closed questions.

# Knowledge Organizer

The key pieces of information that you will learn during this unit have been gathered together on a **Knowledge Organiser**.

Discuss it with your partner.

Did I know any of these facts before I saw this?

Has looking at this answered any of my questions?

Which of these facts will be most difficult for me to remember?

Why do I need to know this information?

What activities might we do to learn more about these things?

Is there anything here I do not understand?

**Key Vocabulary**

<b>algorithm</b>	A sequence of ordered instructions. In Scratch, <b>algorithms</b> are referred to as scripts.
<b>block</b>	A puzzle-shaped piece of code. They can connect to other <b>blocks</b> to create <b>algorithms</b> .
<b>code</b>	A set of instructions written in a programming language that a computer can understand.
<b>debugging</b>	<b>Debugging</b> is where you find, remove or correct errors in computer <b>code</b> .
<b>repetition</b>	When a command or process is repeated.

**Scratch Interface**

**Block Categories**

- Motion
- Control
- Looking
- Looks
- Speaking
- Sound
- Variables
- My blocks

**Control Blocks**

Use the **If...then...else...** blocks to determine the outcome of a condition.

An **Operators** block can be placed inside the hexagonal space.

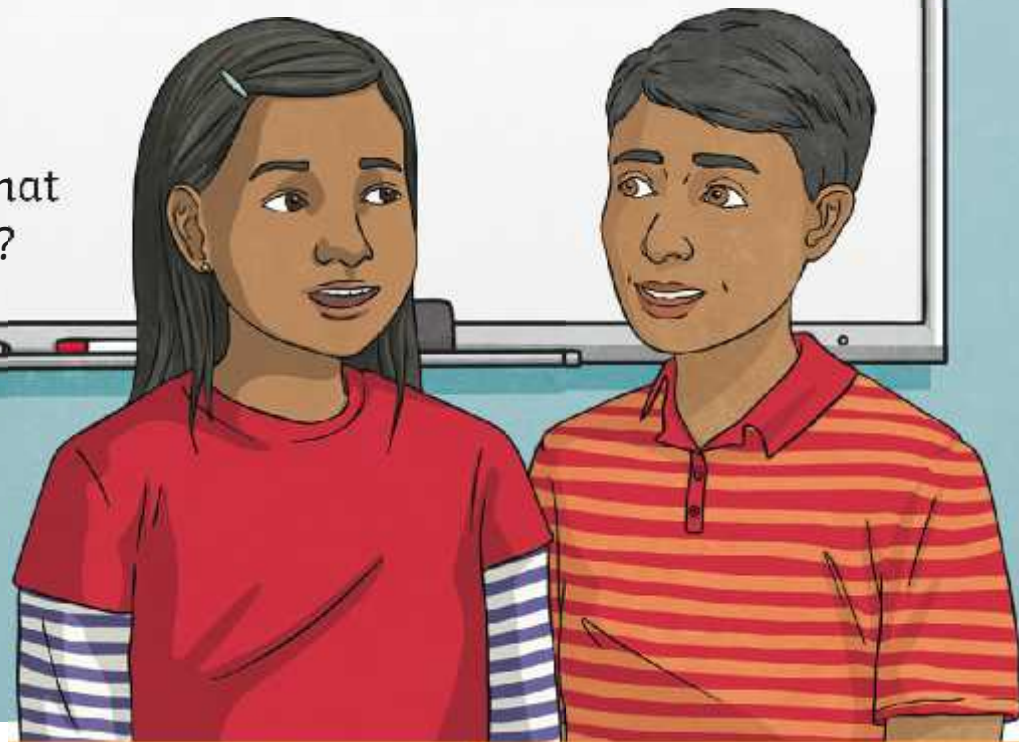
# Quizzes

Discuss these questions with a talk partner.

What are quizzes?

What is the purpose of a quiz?

Are there any quizzes that you have played before?





# Quizzes

Some popular quizzes you may know from television are:  
a team. Contestants are tested on their knowledge on one specific topic  
or a range of topics.

Who Wants to  
Be a Millionaire

Pointless

The 1% Club

The Chase



# Quizzes: Types of Quizzes

There are many different types of quizzes, these can be paper-based or online. These can include:



mul



true or false



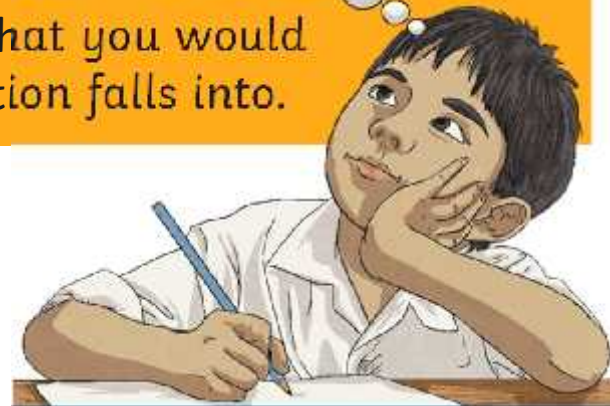
filling in the blanks



numerical answers

# Open and Closed Questions

There are two types of questions: open and closed. It is not the question but the type of answer that you would give that determines which category the question falls into.



Do you know what the difference is between open and closed questions? Discuss with a partner.



# Open Questions

Open questions have more than one answer that can be correct and most of the answers consist of more than one word. These questions and answers require a bit of thought.


For example:



What is the weather like?

It is very sunny but it may rain later.

More than one word and the answer could be different.



What do you want to be when you are older?

I would like to be a pilot and fly aeroplanes.

There can be more than one answer here.

Can you give some more examples of open questions?

# Closed Questions

For closed questions, the answers tend to be right or wrong. These questions can be answered quickly and usually require one word or a number.



For example:

Question: What is  $20 + 15$ ?

Answer: 35

For the purpose of our first quiz we will be asking **closed** questions, which only have one correct answer.

X

Think about the different quizzes you have looked at today. Which questions would be best suited for each type of quiz and why?



# Open and Closed Questions


Work in pairs to test your knowledge with the paper-based **Open and Closed Questions Activity Sheet**.

**Open and Closed Questions**

To understand how to use and compare different types of quizzes.

Look at these questions and decide whether they are open or closed questions. Put a tick in the correct box.

Question	Open	Closed
What is 8 x 6?		
Do you usually travel to school by car?		
What do you like most about school?		
Have you ever been on a boat before?		
What is the weather like today?		
Do you like the colour green?		
How do you make a sandwich?		



# Open and Closed Questions

Here are the answers to the activity sheet you have just completed. Were some questions harder than others?

Discuss with your partner:

Question	Open	Closed
What is 8 x 6?		✓
Do you usually travel to school by car?		✓
What do you like most about school?	✓	
Have you ever been on a boat before?		✓
What is the weather like today?	✓	
Do you like the colour green?		✓
How do you make a sandwich?	✓	



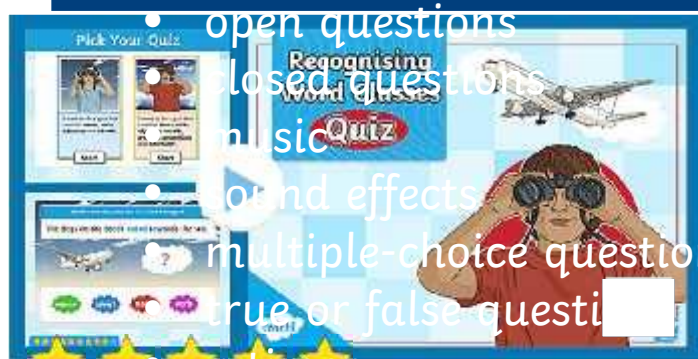
When is it useful to use closed questions?

When is it useful to use open questions?

# Let's Quiz!



When playing your quizzes, look out for some of the following features:



- open questions
- closed questions
- music
- sound effects
- multiple-choice questions
- true or false questions
- a timer

- a score
- interesting hosts/characters



Are there any more features that you recognised?





# Which Quiz?

Think about it:

What are the pros and cons of paper-based and online quizzes?



What is the difference between a paper-based and online quiz?

Which quiz do you think is the best and why?

Can you give examples of when one quiz may be better to use than another?

Which features stood out or were different in each quiz? (open, closed, multiple choice, true or false, sound effects, timers, characters, etc).

# Twinkl Needs You!

**Overall aim:** For all children to have fun while learning their times tables.

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Office Date Stamp

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JUDGEMENT

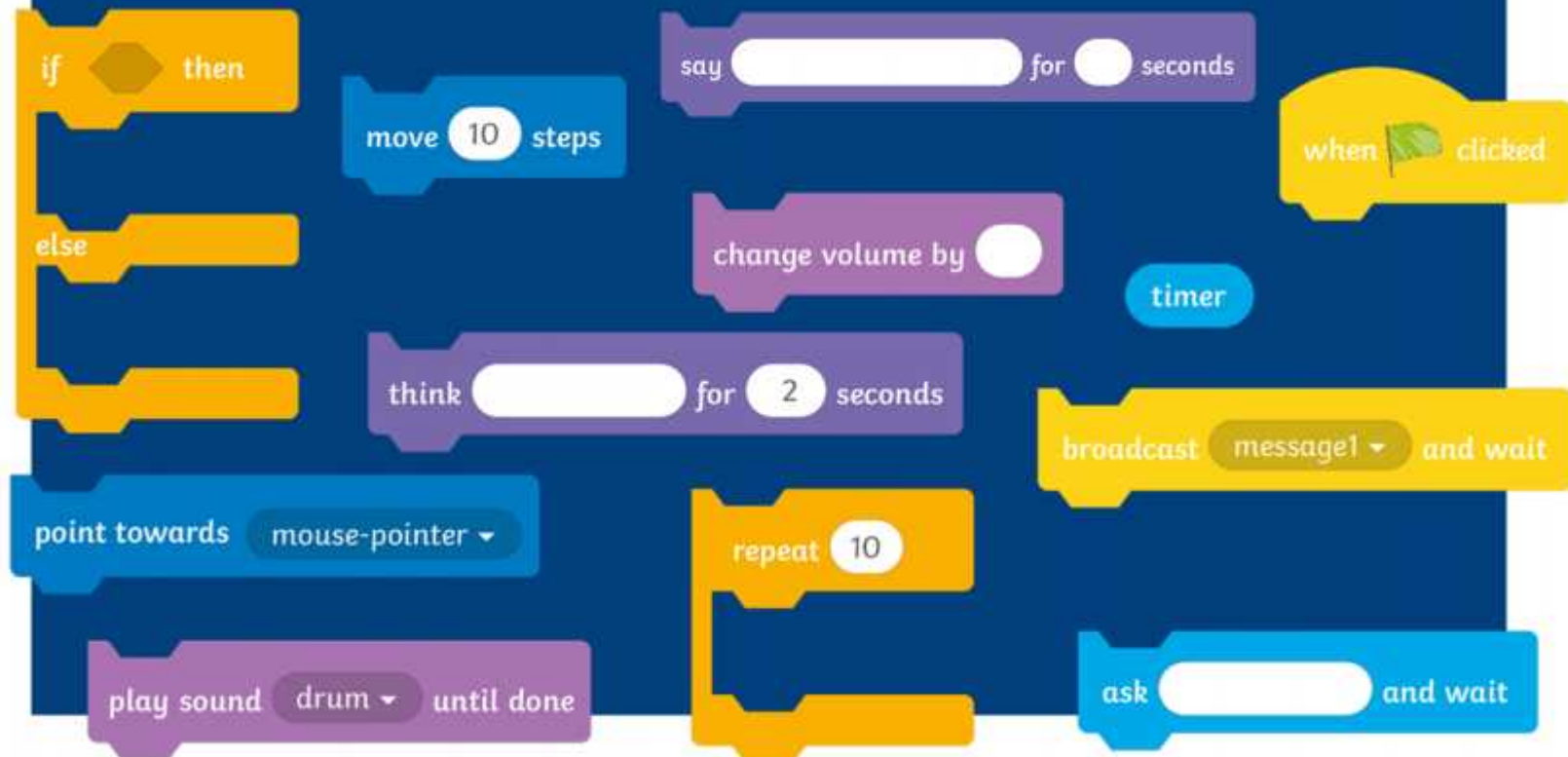
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Do you accept the challenge?

# Identify the Blocks

Look at these blocks. Discuss their functions and which blocks you think would be useful to use in a quiz created in Scratch.



## **Aim**

- To understand how to use and compare different types of quizzes.

## **Success Criteria**

- I can take part in a quiz.
- I can identify what makes a successful quiz.
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**Coding  
with Scratch**

# Open and Closed Questions

To understand how to use and compare different types of quizzes.



Look at these questions and decide whether they are open or closed questions. Put a tick in the correct box.

Question	Open	Closed
What is $8 \times 6$ ?		
Do you usually travel to school by car?		
What do you like most about school?		
Have you ever been on a boat before?		
What is the weather like today?		
Do you like the colour green?		
How do you make a sandwich?		



# Open and Closed Questions - Answers

To understand how to use and compare different types of quizzes.



Look at these questions and decide whether they are open or closed questions. Put a tick in the correct box.

Question	Open	Closed
What is $8 \times 6$ ?		✓
Do you usually travel to school by car?		✓
What do you like most about school?	✓	
Have you ever been on a boat before?		✓
What is the weather like today?	✓	
Do you like the colour green?		✓
How do you make a sandwich?	✓	



# Quiz Review

To understand how to use and compare different types of quizzes.



Write down all of the pros (positives) and cons (negatives) for using the different types of quizzes.

## Online Quiz

**Pros**

**Cons**

## Word Bank

open

closed

multiple choice

true or false

sound effects

timers

characters



## Paper-Based Quiz

**Pros**

**Cons**

Which type of quiz do you prefer and why?

# Quiz Review

To understand how to use and compare different types of quizzes.



Complete the pros and cons table below for each quiz type and their features.

Type of Quiz	Features (e.g. sound effects, timers, pop-ups)	Pros	Cons
true or false			
multiple choice			
numerical answers			

# Quiz Review

Type of Quiz	Features (e.g. sound effects, timers, pop-ups)	Pros	Cons
filling in the blanks			
open questions			
closed questions			

What can online quizzes do that paper-based ones can not?

What are the benefits of using a paper-based quiz instead of using technology?

# Quiz Review

To understand how to use and compare different types of quizzes.



Make a list of the pros and cons for using the different type of quizzes below. Think about the features of the quizzes and types of questions used. Then, answer the questions.

Paper-Based Quiz		Online Quiz	
Pros	Cons	Pros	Cons

- What is the difference between a paper-based and online quiz?
- What can online quizzes do that paper-based ones cannot?
- What are the benefits of using a paper-based quiz instead of using technology?
- How are the answers for each quiz type collected? How are the scores recorded?
- What other features stood out?

# Quiz Review

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Write down all of the pros (positives) and cons (negatives) for using the different types of quizzes.

## Online Quiz

**Pros**

**Cons**

## Word Bank

open

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## Paper-Based Quiz

**Pros**

**Cons**

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Which type of quiz do you prefer and why?

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# Quiz Review

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Complete the pros and cons table below for each quiz type and their features.

Type of Quiz	Features (e.g. sound effects, timers, pop-ups)	Pros	Cons
true or false	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
multiple choice	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
numerical answers	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>



# Quiz Review

Type of Quiz	Features (e.g. sound effects, timers, pop-ups)	Pros	Cons
filling in the blanks	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
open questions	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
closed questions	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>

What can online quizzes do that paper-based ones can not? \_\_\_\_\_

\_\_\_\_\_

What are the benefits of using a paper-based quiz instead of using technology? \_\_\_\_\_

\_\_\_\_\_

# Quiz Review

To understand how to use and compare different types of quizzes.



Make a list of the pros and cons for using the different type of quizzes below. Think about the features of the quizzes and types of questions used. Then, answer the questions.

Paper-Based Quiz		Online Quiz	
Pros	Cons	Pros	Cons

• What is the difference between a paper-based and online quiz? \_\_\_\_\_

\_\_\_\_\_

• What can online quizzes do that paper-based ones cannot? \_\_\_\_\_

\_\_\_\_\_

• What are the benefits of using a paper-based quiz instead of using technology? \_\_\_\_\_

\_\_\_\_\_

• How are the answers for each quiz type collected? How are the scores recorded? \_\_\_\_\_

\_\_\_\_\_

• What other features stood out? \_\_\_\_\_

\_\_\_\_\_

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