

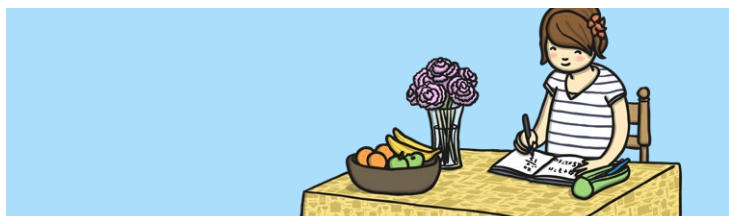
Introduction

This unit follows up the earlier units on programming Scratch on a computer/tablet or Pyonkee with iPads. In this unit the children write quizzes by combining questions. While specific skills in Scratch are taught, the unit aims to teach children the wider programming skills of solving problems, testing, debugging, improving and evaluating.



Health & Safety

Children should be encouraged to have good posture and sit up straight at the computer. Showing or creating the flashing sprite effect could be problematic for children with conditions such as epilepsy. There have been no reported problems at the time of writing this lesson plan.



Home Learning

Quiz Poster: Based on their own experiences, children create a poster about the dos and don'ts for creating a quiz using Scratch.

Original Effects Challenge: Children experiment with different blocks to create an original effect for either the sprite or the backdrop.

Assessment Statements

By the end of this unit...

...all children should be able to:

- Write a program which accomplishes a specific goal.
- Create a program that includes a logical sequence.
- Debug a program they have written.

...most children will be able to:

- Use repetition and selection.
- Work with variables and adjust these depending on the effect they wish to create.
- Understand and use the duplicate function.
- Demonstrate that they understand how to combine a range of different effects to create their own quiz.

...some children will be able to:

- Design a program.
- Successfully decompose a problem into its smaller parts.
- Analyse the software to check it is fit for purpose.
- Build on their existing knowledge to experiment and innovate when programming.

To look at all the resources in the Scratch: Questions and Quizzes unit [click here](#).

To find out more about PlanIt download our [free guide here](#).

Lesson Breakdown

1. Questions and Answers

Create content that accomplish given goals. Solve problems by decomposing them into smaller parts. In the context of analysing the difference between paper and online quizzes.

- I can compare quizzes and decompose a problem into smaller parts.

Write and debug programs that accomplish specific goals by creating a quiz question.

- I can write and debug a program.

2. A Short Quiz

Write and debug programs that accomplish specific goals in the context of creating a quiz question.

- I can write and debug a program.

Use sequence and selection in programs by creating a sequence of commands and using the 'if...then...else...command'.

- I can use sequence and selection.

3. Changing the Sprite

Write and debug programs that accomplish specific goals by creating visual effects as part of a quiz.

Use sequence and repetition in programs by sequencing commands that run and using repetition to create effects.

- I can write and debug a programs which use sequence and repetition.

Work with variables by changing the colour, shape, size and adding extra features to the sprites used in the quiz.

- I can work with variables.

4. Additional Effects

Write and debug programs that accomplish specific goals in the context of adding sound effects and changing backdrops.

Use sequence and repetition in programs by adding blocks to existing programs and ensuring they run all the effects.

- I can write and debug a program which uses sequence.

Work with variables by changing the backdrop to the quiz.

- I can work with variables.

5. Scoring

Write programs that accomplish specific goals in the context of creating a scoring system.

- I can write a program.

Work with variables by creating a scoring system for a quiz.

- I can work with variables.

6. Create Your Own Quiz!

Design, write and debug programs that accomplish specific goals by creating a quiz on a topic of their choice.

use sequence, selection, and repetition in programs by creating a sequence of blocks and using the 'if...then...else' and 'repeat' commands.

Work with variables by creating effects in their own quiz.

- I can design, write and debug my own program by selecting appropriate visual block commands to create a sequence.

Resources

- Desktop computer or laptops
- Scratch 1.4 or 2 installed or use online application
- Glue Sticks
- Scissors



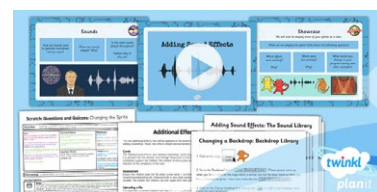
- Desktop computer or laptops
- Scratch 1.4 or 2 installed or use online application



- Desktop computer or laptops
- Scratch 1.4 or 2 installed or use online application
- Clips of TV shows where the host is delivering a catchphrase



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- Desktop computer or laptops
- Scratch 1.4 or 2 installed or use online application
- Whiteboards and pens

