Adult Guidance: Ready, Steady, Go! Lesson 5

Children's individual solutions to creating the code may vary but trial and error and experimentation with ideas should be encouraged.

At the start of this lesson, it is recommended that children save their work under a new name that indicates 'Ready, Steady, Go! Lesson 5' to allow for assessment against this lesson's success criteria.

The quiz introduced in this lesson includes more complex coding, but allows the children to see how effective **Variables** and **Operators** are when joined together.

Some Potential Debugging

- Ensure the children place all of their question code inside the **forever** loop otherwise the questions will not continuously generate. Some children may not snap their blocks in correctly and this can affect the whole algorithm.
- Ensure that when creating the number variables, that two are created labelled: **Number 1** and **Number 2**. If the children join **Number 1** and **Number 1** together this will create square numbers, for example, 2 x 2. They will need to join **Number 1** and **Number 2** together for their randomised multiplication questions.
- If the sprite appears to 'jump' positions, return to the **Paint Editor** for that sprite and check that the sprite is in the centre of the **canvas**.



Adult Guidance: Ready, Steady, Go! Lesson 5





Adult Guidance: Ready, Steady, Go! Lesson 5



Coding with Scratch: Questions and Quizzes: Ready, Steady, Go!

National Curriculum Design, write and debug programs that accomplish specific goals, inc physical systems; solve problems by decomposing them into smaller	luding controlling or simulating parts.	Lesson Duration It is estimated that this lesson will take approximately 60	
use sequence, selection, and repetition in programs; work with variables and various forms of input and output.		minutes.	
Use logical reasoning to explain how some simple algorithms work an algorithms and programs.	nd to detect and correct errors in		
Aim			
To create a new racing quiz using Operators, Variables and Sensing b	locks.		
Success Criteria	Key Vocabulary		
l can design a racetrack backdrop.	Algorithm, backdrop, edge, forever	thm, backdrop, edge, forever, join, loop, motion, operators, m, sensing, variable.	
I can use Operators and Variables blocks together.	random, sensing, variable.		
I can use touching edge Sensing blocks.			
I can use Motion blocks to move a sprite along in a quiz.			
Resources	Preparation		
Lesson Pack	Differentiated Ready, Steady, Go! Algorithm Activity Sheet - as		
PC devices, such as laptops, Chromebooks and/or tablets	required.		
Scratch Online version accessed via https://scratch.mit.edu/	Please access Lesson 5 (Racing Car Multiplication Quiz Teacher Example) in the		

Prior Learning: In the previous lesson, children will have been introduced to Variables and how they can add a new score variable to their game. They will also have had the opportunity to add sounds and special effects to their sprites.

Learning Sequence

Remember It: Using the Lesson Presentation, show the children the different icons from the Scratch Paint Editor and ask the children to recall what the icon is and its function.	
Creating a New Quiz: Using the Lesson Presentation, discuss the previous quiz created and the advantages and disadvantages of using the ask and wait Sensing block. An advantage could be that the children can use it to ask questions where specific written answers are required, such as asking what someone's name is. A disadvantage is that in a multiplication quiz, the same numbers will be generated on each new game as opposed to being randomised. Explain to the children that they are going to be creating a new, competitive quiz. Discuss what features make existing multiplication games interesting. This can include answers such as the use of timers, scores, trying to compete against a computer or another player, etc. Access Lesson 5 (Racing Car Multiplication Quiz Teacher Example) in the <u>Scratch Project Area</u> and play the multiplication quiz with the class without showing them the code.	
Getting Started: Using the Lesson Presentation, ask the children to follow the on-screen instructions to create a new project. They will need to name their file 'Ready, Steady, Go! Lesson 5' then add and position a new sprite. Children will then be given ten minutes to draw a new racetrack backdrop.	
New Code: Using the Lesson Presentation, show the children what the new algorithm for the competitive quiz will look like. Encourage answers to the on-screen questions, such as there are still ask and wait blocks but there are no questions written inside; the numbers are generated randomly from 0 to 12; ifthenelse conditional statements are used again; say blocks are used when the answer is incorrect; there are new move Motion blocks as well as a touching edge Sensing blocks. The children may comment on the complexity of the code with the new green Operators join blocks and the new variables that have been created.	
A Closer Look: Using the Lesson Presentation, work through each line of algorithm and discuss what its function is.	

	A Closer Look: The Final Piece: Using the Lesson Presentation, explain to the children that the competitive edge of the game is to try and get the sprite touching the edge of the screen, past the finish line.	
	Forever Loops: Using the Lesson Presentation, show the children what a forever loop is and how this will be used in the lesson. It is important to note that a forever loop is important to ensure that random multiplication questions are generated continuously until the quiz ends.	
	Why will it be useful to use a forever loop within this quiz?	
	Let the Quiz Begin: Using the Lesson Presentation, and the Differentiated Ready, Steady, Go! Algorithm Activity Sheet, the children will have the opportunity to complete their own multiplication race.	
	 Children are given a breakdown of the relevant code, with prompts, to create a new mathematical quiz using Operators and Variables to generate the randomised questions. Top tips are provided. Children are given prompts to help them create their new mathematical quiz using Operators and Variables to generate random multiplication questions. Helpful hints and useful blocks are provided, as well as extra independent challenges. Children are given instructions with very few useful blocks. They will use Operators and Variables to create random multiplication questions. and are challenged to make a score deduction, animate a sprite and add more text to their algorithms. Useful hints are provided. 	
	Let's Discuss: Using the Lesson Presentation, ask the children to work in pairs to discuss ways they could make the quiz easier or harder. Possible answers could be: move the sprite more or less steps; choose different numbers from the times tables, such as only use multiples of five; adding scores that increase with a correct answer and deducts for an incorrect answer; add more sound effects. This plenary can be used as a form of assessment to see if the children make suggestions linked to the new skills learnt throughout this unit.	
Exploreit		
	Playit: The children can access the today. This will also allow the children to practise setting scores. to practise the skills learnt in the location of the skills learnt in the skills learnt in the location of the skills learnt in the location of the skills learnt in the location of the skills learnt in the skill	esson
	Debugit: Children have a go at playing somebody else's quiz. Does any code need debugging? Could any effects be add were learnt in previous lessons?	ed that
Assessme	nt Notes:	

Disclaimers:

External Links:

This resource contains links to external websites and/or external apps. Please be aware that the inclusion of any link in this resource should not be taken as an endorsement of any kind by Twinkl of the linked website and/or app, or any association with its operators. You should also be aware that we have no control over the availability of the linked pages and/or apps. If the link is not working, please let us know by contacting TwinklCares and we will try to fix it although we can assume no responsibility if this is the case. We are not responsible for the content of external sites and/or external apps.

Scratch Safety:

Showing or creating the flashing sprite effect could be problematic for children with conditions such as epilepsy. Discretion is advised.

Computing

Coding with Scratch: Questions and Quizzes

Computing| Coding with Scratch: Questions and Quizzes| Ready, Steady, Go! | Lesson 5



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 create a new racing quiz using Operators, Variables and Sensing blocks.

Success Criteria

I can design a racetrack backdrop. I can use Operators and Variables blocks together. I can use touching edge Sensing blocks. I can use Motion blocks to move a sprite along in a quiz.

Remember It

These icons all appear in the **Paint Editor** when designing your own backdrop. Can you remember what each one does?



CX.

Binesh This is used all alve yout raighter. lines.

Eithser his huils and so you you fill enase any doje of ngs you have made.

Restangles and **Circle**ed **Theseperenticols** thei**chnolos** you to draw squares, rectangles, ovals and circles.



Creating a New Quiz

You hav ' one sty What are the advantages of the as! -k. using the ask and wait Look at the Sensing block in a quiz and questions and what types of quizzes would discuss with a they work best for? partner. Can you think of any disadvantages of using the ask and wait Sensing block for a multiplication quiz? Were there any issues?

Creating a New Quiz



Creating a New Quiz

Open Lesson 5 (Racing Car Multiplication Quiz) to see what our new quiz will look like.

battling against another person



Had you thought to include some of these Youehtwees@me great ideas!



using a timer



having a goal or finish point

Getting Started



Open a new Scratch project and name this 'Ready, Steady, Go! Lesson 5'.

Add a new vehicle sprite and position it on the left-hand side of the **Stage**.

The **Motion** block within the **Block Palette** should now show the coordinates of its position.



Your values may be different depending on the position of your sprite.



Scole Area to set the starting

Getting Started: Backdrop



Activity:

You will now have ten minutes to create your own racetrack backdrop. Don't forget to check that your sprite is in the correct position to start their race.

kdrop.





New Code

Here is the new code created to generate the mathematical questions.

Can you spot any similarities between this algorithm and the algorithm you created in the previous quiz?

Can you spot any differences?



A Closer Look

Set Number 1 - to pick random 0 to 12	REIVISTIC Sets this first nimber
Set Number 2 - to pick random 0 to 12	What happense hereand 12.
Set Correct - to Number 1 Number 2 ask join join Number 1 × Number 2 and wait if mswer = correct then move 30 steps else say Oops! for 2 seconds	This part of the code tells Row 2 sets the second the computer to create two number to be picked from numbers between 0 and 12 random numbers between 0 It then tells the computer and 12. to generate a correct answer when they are Row 3 sets the Correct answer as Number 1 and Number 2 multiplied together.

A Closer Look





A Closer Look



Act in the same distance adding the move 30 steps block, the sprite will move forward the same distance with time pass here inswer is given.

A Closer Look: The Final Piece



Ahiookst block can fbe ded ded ltbe beotthed player know the phave e thougame more competitive, we can add an if...then... block. We want the game to end when the finish line is reached, therefore a **touching edge** block can be added. This will ensure that if the edge of the **Stage** is touched by your sprite, then the **say** block will run, announcing this sprite is the winner.

Forever Loops

A **forever** loop is used around all of the code apart from the first **Motion** block of the algorithm. The **forever** loop will make everything inside of its C shape repeat continuously without stopping.



In order to stop the loop, a **stop all** block would need to be added or the red **Stop** sign pressed.

Why will it be useful to use a **forever** loop within this quiz?



Let the Quiz Begin!





Ready, Steady, Col Algorithm To treate a new racing quit using Operators, which ies and Sensing blocks. OOO Getting Started:

You should have already chosen a vehicle sprite, drawn a racetrack backdrop and partitioned your sprite using the \mathbf{go} to block.

1. How do I create the Variables for the questions?

- Snap a forever block underneath the go to block.



· Make a Variable in the Variables section of the Block Palette, Call this 'Number 1'.

Mater another variable and call this "Number 2".

+ Make another wariable and call this 'Correct'.



- Top Tip: Remember to select the correct variable from the drop-down menu.

• Select the set Number 1 to block and

+ Select the sat Number 1 to block and new this inside the forever loop.

• Select the set Number 2 to block and snap this underneath.



Let's Discuss!

Is there a way you could make the quiz harder?

> Now that you have created your new quizzes, have a chat with a partner and see if you can think of ways that you could make it more interesting?

> > Is there a way you could make the quiz easier?

Aim

To create a new racing quiz using Operators, Variables and Sensing blocks.

Success Criteria

I can design a racetrack backdrop. I can use Operators and Variables blocks together. I can use touching edge Sensing blocks. I can use Motion blocks to move a sprite along in a quiz.



To create a new racing quiz using Operators, Variables and Sensing blocks.

Getting Started:

You should have already chosen a vehicle sprite, drawn a racetrack backdrop and positioned your sprite using the **go to** block.



1. How do I create the Variables for the questions?

• Snap a **forever** block underneath the **go to** block.



- Make a Variable in the Variables section of the **Block Palette**. Call this 'Number 1'.
- Make another variable and call this 'Number 2'.
- Make another variable and call this 'Correct'.





Top Tip: Remember to select the correct variable from the drop-down menu.

- Select the **set Number 1 to** block and nest this inside the **forever** loop.
- Select the **set Number 2 to** block and snap this underneath.
- Select the **set Number 2** to block and snap this underneath.

To create a new racing quiz using Operators, Variables and Sensing blocks.

2. How do I add Operators? Set Number 1 - to pick random 0 to 12 Set Number 2 - to pick random 0 to 12

- Select the **pick random** block and nest inside the **set Number 1 to** white space. Make sure to type in the values '0' and '12'.
- Select another **pick random** block and nest inside the **Number 2** space. Make sure to type in the values '0' and '12'.



• Select a multiplication **Operators** block and nest this inside the **set Correct to** block.



• Nest in the **Number 1** and **Number 2** oval-shaped **Variables** on either side of the multiplication symbol.



To create a new racing quiz using Operators, Variables and Sensing blocks.



Top Tip: When nesting inside spaces, if you hover over the space, it will become highlighted to show where the block can be dropped inside.

To create a new racing quiz using Operators, Variables and Sensing blocks.

4. How can I add if...then...else...blocks to move the sprite along in the race?



- Select an **if...then...else...** block and snap this in underneath the **ask and wait** block.
- Select a hexagonal green **equals** block and nest this inside the hexagonal space next to **if**.



• Nest an answer block inside the first white space and a **Correct** block inside the second white space.



- •Add a move 30 steps block inside the **if** section.
- •Inside the **else** section, snap in a **say Oops! for 2 seconds** block.

To create a new racing quiz using Operators, Variables and Sensing blocks.



- Snap an **if...then...** block underneath the existing **if...then...else...** block.
- Nest a **touching edge** block inside the hexagonal space next to **if**.
- Add a say Winner! for 2 seconds block underneath.
- Add a **stop all** block underneath.

Challenge:

Can you change some of the text inside the Looks blocks?

To create a new racing quiz using Operators, Variables and Sensing blocks.

Getting Started:

You should have already chosen a vehicle sprite, drawn a racetrack backdrop and positioned your sprite using the **go to** block.



To create a new racing quiz using Operators, Variables and Sensing blocks.



- Select the **pick random** block and nest inside the **set Number 1 to** white space. Make sure to type in the values '0' and '12'.
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To create a new racing quiz using Operators, Variables and Sensing blocks. 3. How do I ask the questions? Number 2 join What's your name? and wait ask • Select the **ask and wait** block and nest a **join** block inside the white space. • Insert a **Number 2** in the second **join** white space. Number 1 join • Select another **join** block. Nest a **Number 1** in the first space and put an 'X' in the second space. and wait ask (join join X • Nest this new **join** block inside the first space of the previous **join** block.

 Snap this block inside the forever loop, underneath the set Correct to Number 1 * Number 2 block.

Top Tip: When nesting inside spaces, if you hover over the space, it will become highlighted to show where the block can be dropped inside.

To create a new racing quiz using Operators, Variables and Sensing blocks.

4. How can I add if...then...else...blocks to move the sprite along in the race?



- Select an **if...then...else...** block and snap this in underneath the **ask and wait** block.
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- Add a move 30 steps block.
- Inside the **else** section, snap in a **say Oops! for 2 seconds** block.

To create a new racing quiz using Operators, Variables and Sensing blocks.

5. How can I end the quiz?



- Snap an **if...then...** block underneath the existing **if...then...else...** block.
- Nest a **touching edge** block inside the hexagonal space.
- Add a **say Winner! for 2 seconds** block underneath.
- Add a **stop all** block underneath.

Challenge:

Can you change some of the text inside the Looks blocks?

Can you add another **say** block to the algorithm for each time a correct answer is given?

Can you animate the sprite when an incorrect answer is given?





To create a new racing quiz using Operators, Variables and Sensing blocks.

3. How do I ask the questions?
join Number 2 join X Number 1
 Select the ask and wait block and nest a join block inside.
 Insert a Number 2 in the second join white space.
 Select another join block. Nest a Number 1 in the first space and put an 'X' in the second space.
ask join join Number 1 X Number 2 and wait
 Nest this new join block inside the first space of the previous join block.
 Snap this block inside the forever loop, underneath the set Correct to Number 1 *

Number 2 block. Top Tip: When nesting inside spaces, if you hover over the space, it will become

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Challenge:

Can you animate the sprite when a correct or incorrect answer is given?

Can you add more text to the algorithm when a correct answer is given?

Can you add a scoring system?

Can you deduct a point for incorrect answers?

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You should have already chosen a vehicle sprite, drawn a racetrack backdrop and positioned your sprite using the **go to** block.



1. How do I create the Variables for the questions?

Snap a forever block underneath the go to block.



- Make a Variable in the Variables section of the **Block Palette**. Call this 'Number 1'.
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Top Tip: Remember to select the correct variable from the drop-down menu.

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Coding with Scratch: Questions and Quizzes | Ready, Steady, Go!

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