Repeat

End

Dow



Fn

This half term's unit in Computing is Programming where the children will learn to create and debug algorithms - following on from their earlier learning in Year 1 where they learnt to program Bee-Bots. The children will use the basic commands in Logo to move and draw using the turtle on screen, and then further develop algorithms using the "repeat" command. These skills will then be developed by teaching children to create algorithms in Scratch using a selection of blocks. This PowerPoint gives you information and instructions to create an algorithm using the repeat command. This can be done on JiT and you will find the children's usernames and passwords to access JiT in the back of their reading records.

Aim

Delete

Dowr

Ctrl

• I can create an algorithm using the repeat command.

Success Criteria

- I can write commands in the correct order.
- I can write a variable value where required.
- I can correct any mistakes.
- I can use the commands fd, lt, rt to move or rotate the turtle.
- I can use repeat.

Fn

You may want to watch this video again to recap all of the skills we learnt last week. You may have just tried the 'simple' option and now feel ready to have a practise using the 'advanced' option or maybe you're ready to move on to the 'j2code' platform instead. If you feel confident with these skills already please feel free to have a look at the next 4 slides for a quick recap of previous skills that you learnt last week before we move on to our new learning of using the 'repeat'.





Delete Dow **Turtle Logo Commands** Remember the commands needed for these tasks: **Moving Forward** Change the Forward 100 number (variable) or to move the turtle a fd 100 different distance. will move the turtle forward 100 fd 4 units. rt 90 fd 4? Or fd 5? Fn Ctrl



Turtle Logo Commands

Delet

End

Remember the commands needed for these tasks:

Clearing the Screen

'Clearscreen' or 'cs' will clear the screen and return the turtle to the starting position.

Fn

Using the Up Arrow

You can use the up arrow to scroll back through previous commands. This can save time by not having to type out commands again.





Once you have recapped all of the previous skills we can move on to using the repeat command! I have created a little video below to hopefully help you navigate your way around j2code! Using the repeat command can you draw squares and rectangles of different sizes? If this is a little tricky, don't worry! Instead, you can continue practising with the simple/advanced options on JiT.



The Repeat Command

Delete

Here are suggested instructions for a square of side 100.

Basic algorithm

Fn





Ctrl

rage

Down

Different Shapes

End

Using a Turtle Logo programme on a computer or tablet, draw some different squares and rectangles.



Can You...?

Can you write an algorithm for this shape?

What other solutions can you think of?



Ctrl

Dowr











Success Criteria

Ctrl

- I can write commands in the correct order.
- I can write a variable value where required.
- I can correct any mistakes.
- I can use the commands fd, lt, rt to move or rotate the turtle.
- I can use repeat.

Fn

Alt