Year 5 Curriculum Summer 2 Week 1

To do throughout the week...	
Wellbeing 'Thought for the day'	**Question of the week:** What is a digital footprint? **Watch:** Private and Personal Information
Daily Exercise	Keep active! Make sure you do something active each day. Maybe do the exercises here.
	**The Great 8** are fun challenges suitable for the whole family. See below.

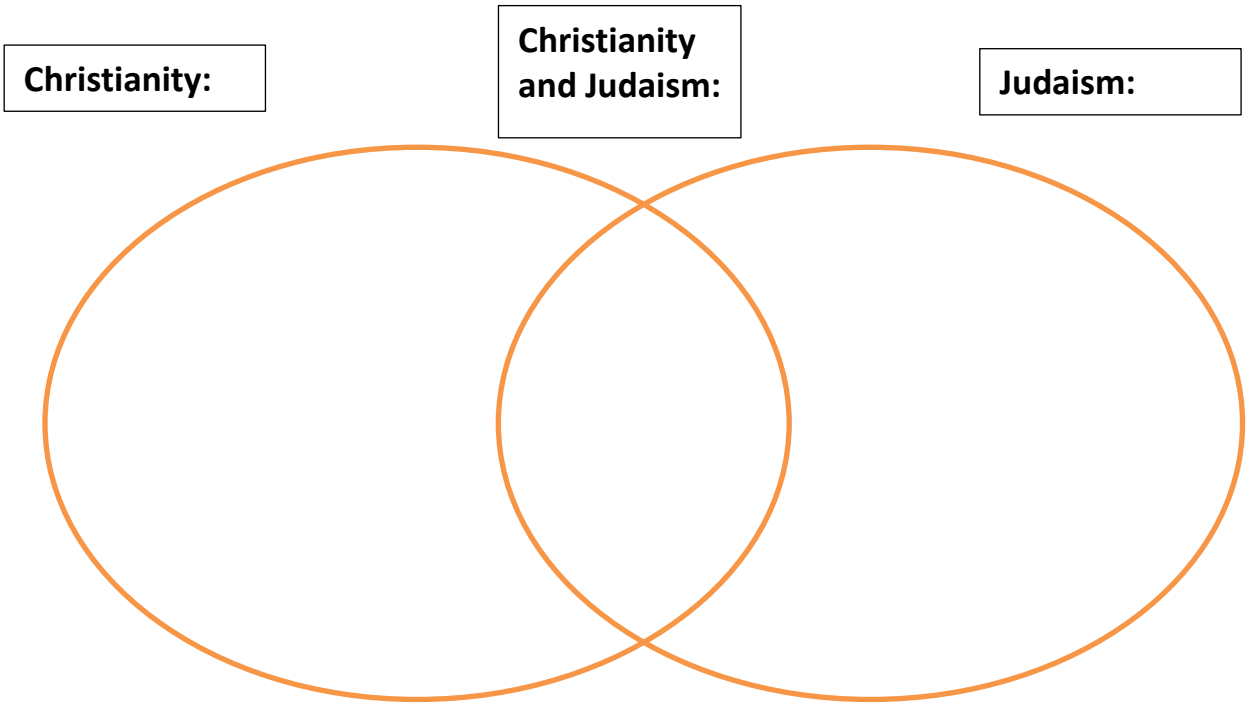
Here are the curriculum activities for the week. You can do in any order you choose.
Try to do these this week as next week's activity will follow on in each subject.

Science	**How have you changed in your lifetime?** • Ask your parents/carers or grandparents to describe the key changes in your lifetime. • Collect some photos of you at different stages in your life. • Using the photos, create a timeline of your life, describing the changes at each stage.	You will need pencil paper photographs
History	**How the Iron Age Changed the World** • Make notes of the strengths of iron as a material and the changes in life you can see in this video and in this link. • Create a poster to explain to someone in your house the impact of the discovery of iron and how it changed life for humanity.	
Geography	**What are renewable energy sources?** • Read this **Website** and define renewable energy. • Find three renewable energy sources to fossil fuels • Draw and label a wind turbine and explain how it produces energy	Support **Wind Turbine Website**
PE	**Power Throwing** • Perform 5 press ups, repeat with hands wide apart, hands close together, with one foot elevated • Using a large pillow, a ball or a teddy lie on the floor with knees bent, push up from chest with powerful movement, repeat with hands above head • Perform as many burpees as you can in 1 minute	
RE	**Pilgrimages to Jerusalem** • List the Seven Wonders of the World from yesterday's lesson. • Watch this video and this video about the importance of Jerusalem to the Jewish and Christian religions. • Create a Venn diagram to show the reason for why Christians and Jews might want to make a pilgrimage to Jerusalem	*Support Venn Diagram
Art	**Colour and Line drawings.** • Arrange a group of small objects together on a flat surface. • Pick one of the objects. Put down a block of colour on your paper, using your chosen colouring material, in the shape inspired by your objects. • When you are happy with your coloured shape create a line drawing of your object, using pencil on top of your colour. Take your time – look for the little details.	You will need: Colouring materials (pencils, chalk, felt tips paint etc.), small objects to draw. *Support 5
Computing	**Spiral Clone Scratch Project** • Think about when you have used variables in coding, and why we use them. • Using the videos(part one and part two) or the instructions below, try to create the Spiral Clone project. • Notice the different extensions available in Scratch, and the different ways we can change the value of our variables.	Support: Spiral Clone Video part one and part two. Instructions below.

Here are some fun challenges suitable for the whole family.

Summer 2 Week 1	
1. To talk about	Which is the odd one out and why? A strawberry, a drain cover, a hamster, pegs
2. To do	How long can you do the plank for?  Challenge members of your family to beat your record
3. To investigate	Is it easier for shorter people to touch their toes?
4. To find out more about	Volcanoes
5. To design	Your perfect treehouse
6. To learn	A magic trick
7. To draw	Your self portrait from your reflection in a spoon
8. To create	A flip book Use an old pad of paper or notebook

RE - Venn Diagram



Art – Colour and Line drawing

We normally draw a pencil sketch first and then colour it in. However, with this method you reverse the process. It's an effective way to make you think about the overall shape of the object before focusing on the smaller details.

You can use any type of paper for this activity. When you become confident using this technique, why not try using the inside of used cardboard food packing. This can make a great canvas for your artwork.

Roll of Sellotape

Ball of string

Computing

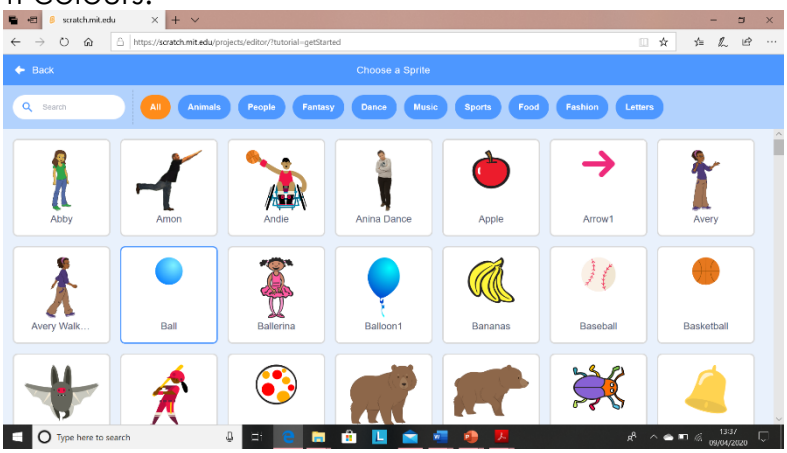
Spiral Clone Part 1
https://vimeo.com/408798762/fa5ad5d1d4

Spiral Clone Part 2
https://vimeo.com/409178309/c9b8d1fd13

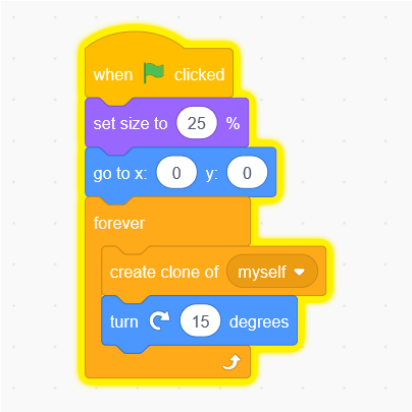
Spiral Clone Instructions

1. Remove the Scratch cat and load the ball Sprite.

It will flash different colours.

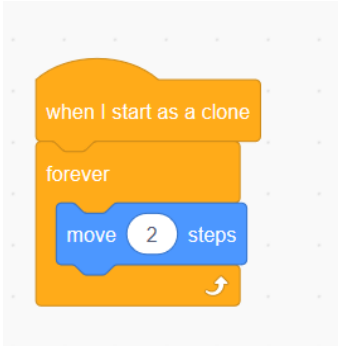


2. Add this loop. What does it do?



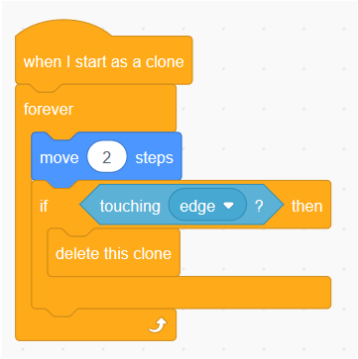
How are we going to start the clones moving?

3. To make the clones move, add this script. Discuss what is happening.

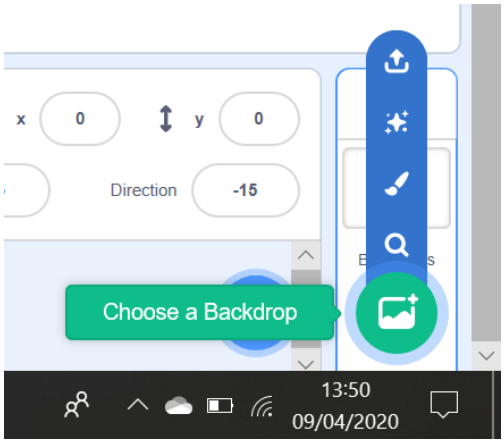


Why have the clones stopped?

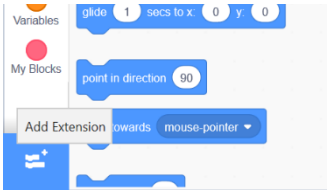
4. In Scratch, the maximum number of clones on a stage is 300. We need to delete the clones when they hit the edge of the stage. How can we do this?



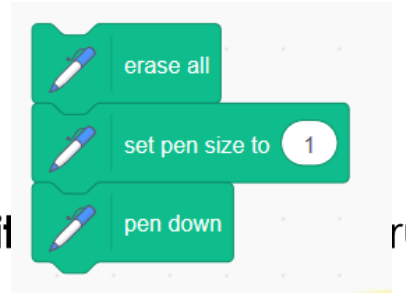
5. Create a dark background to show your kaleidoscope.



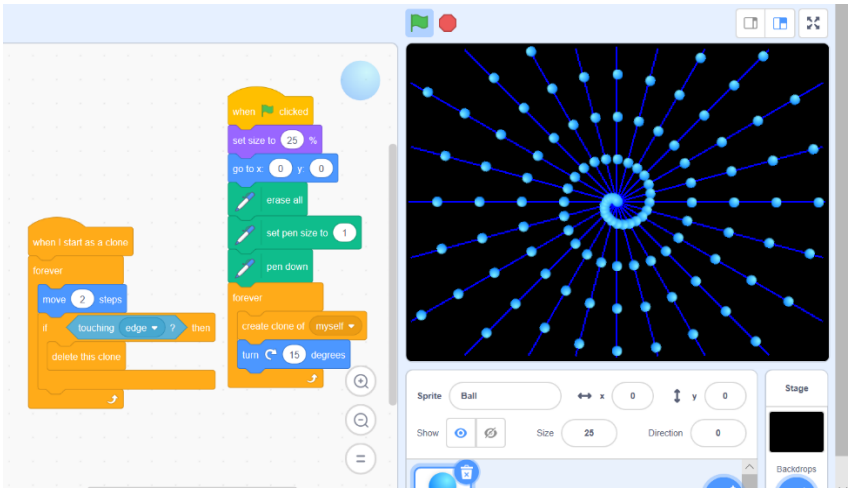
6. I want my balls to draw a pattern. To do this I am going to use the pen.



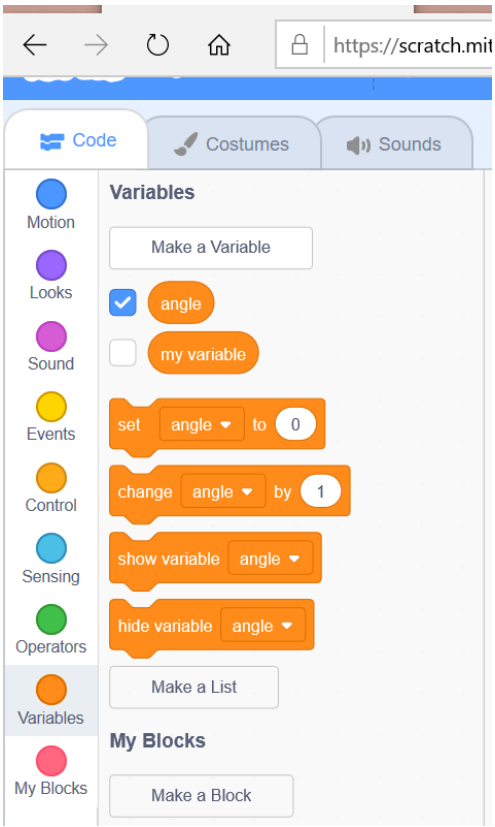
Click on 'add extension' in the bottom left hand corner.
Add 'Pen'.
The blocks will appear in your choices. They are dark green.
Erase all gets rid of anything that has been left from the last time you pressed the green flag. You can experiment with pen size, but for now I am making my pen thin.
Then you select pen down, as if you are putting the pen on a piece of paper.
Whereabouts in your code can you put these blocks?



7. Click on the green flag to test out your code.



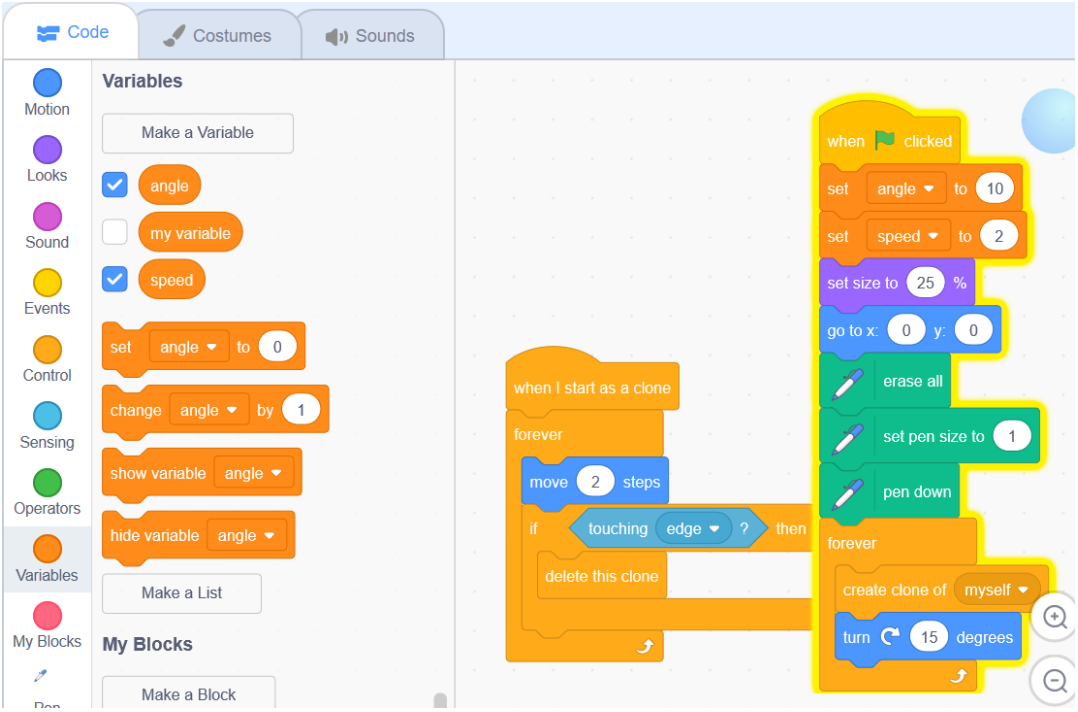
8. Make a variable and name it ‘angle’.



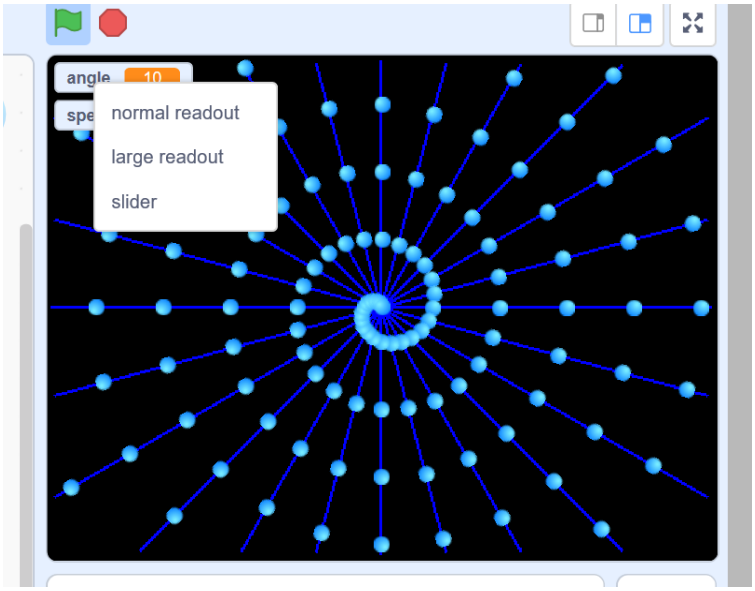
9. Make a variable and name it speed.

10. Keep the variables ticked in the blocks palette so they appear on the stage.

11. Insert the 'set variable' blocks into your code. You don't have to assign a value (give them a number) as we are going to use a slider.



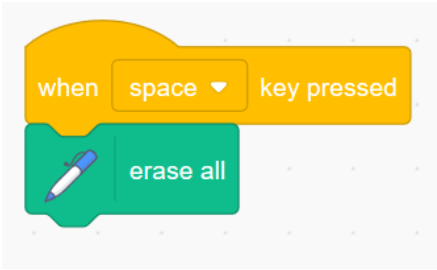
12. Right click on both variables on your stage and select 'slider'.



13. We are going to use the slider to change the speed and the angle. This can be done before we click the green flag and whilst our code is running.

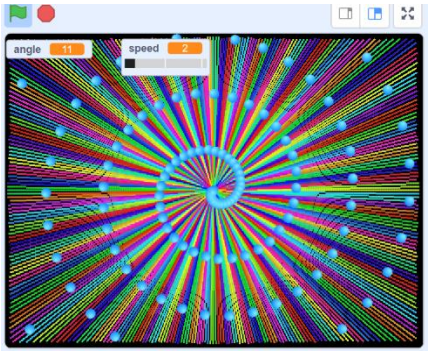
14. Try out your code, changing the angle and speed.

15. Add a code sequence to remove the drawing when the space bar is pressed.



16. Now we could change the pen colour for each clone.

(Here is one of my spiral designs. Where in my code would I put the 'change colour' block?)



17. Think of other ways to alter how the code works. I have my ball changing colours and have played with the pen size.

18. Have fun. I'd love to see how you do, so if you'd like to show me, email a link to:
ict@churchfields.bromley.sch.uk