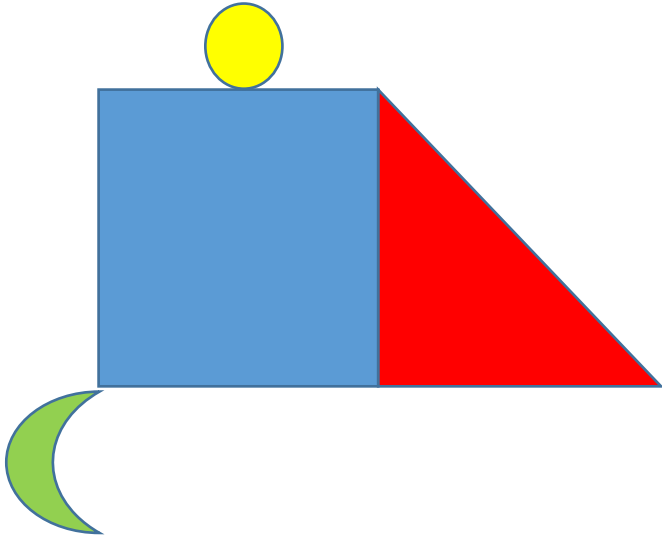# Year 5 Computing: Home Learning Week 12

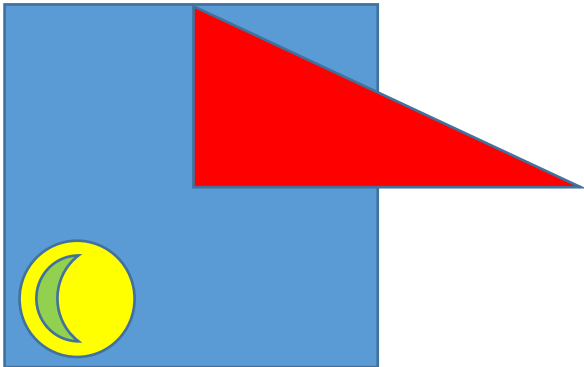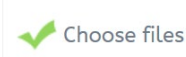Greetings Year 5!

This week's activity focus is: algorithms!

Take care, stay alert, stay safe!

Mrs P, in ICT ☺

Task	Description
1	• On your computer, open a new Word file. Save it as "shape algorithm *initials*". (The initials are so I can see that it is your work!)
2	• An algorithm is a set of instructions, a bit like the ones you saw last week in the cake recipe. • The recipe told us the steps for making the cake, in the correct order, so that we end up with a cake, rather than a mess! • Computers need instructions in a correct order, otherwise they are not able to do the task we want it to. It gets confused and stops working. • We are going to have a go at writing an algorithm (set of instructions). It has to be in the right order, with the correct information, otherwise the reader will create something different to what we want to see.
3	• Take a look at Mrs P's first picture. Can you write a set of instructions to help someone understand how to draw the picture without seeing it? • Try out your instructions on someone else in your house, and see if your instructions are clear enough. Be clear and precise about what you want them to draw. • If they come up with something different to Mrs P's picture, then maybe you will need to re-write your instructions and try again! Maybe you need to think about size and colour! • Type your instructions onto your word document, then click File and Save.

4	• BONUS TASK – how smart are you? • Now try to write a second set of instructions using Mrs P's second picture – but BEWARE!!!!!!! This one is a lot trickier. You have to think about size, colour and the position of the shapes. • Hints – • which shape needs to be drawn first? • How will you make sure that the colours can be seen clearly? • At which point will they colour in the shapes? When you have written the algorithm, test it out. Does it work first time? Type your algorithm onto your Word document, and click File and Save.
5	• Keep the pictures that are created from the instructions. When we come back into school, you can bring them to show me, or pop them onto Seesaw, and I'll ask Miss Johnston/Miss Milburn to show them to me!
6	• When you have saved it, try uploading it to school 360, so that I can see your algorithms. • To do this, first sign into school360 – there's an instruction sheet on the home learning page if you don't know how to do this • Now click on **resources.** This is on the main school360 screen. • Then click on **J2E** • Now click on **upload –** it looks like this
7	 • Now click on **choose files -** This is in the middle of your screen. • When you do this, a menu will come up, like it does when we save the work at school. • Choose the file you wish to upload – it should be the file you saved before called "shape algorithm *initials*". • Click on the file and it will save into your area in School 360, and I will be able to see it.