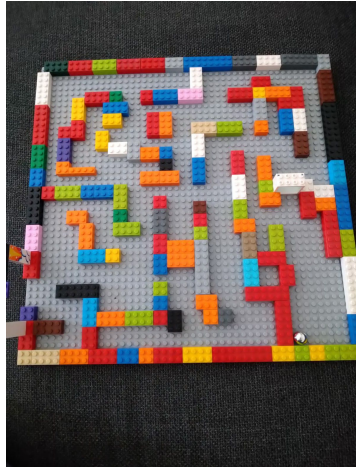


Computing Work from Home Package

Year 5 and 6

Coding without the Computer

1. Build a maze, place a lego character or something else at the start of your maze and use the turtle codes of, left, right and forward.
 - a. Remember to turn degrees, like 90.
 - b. Decide how much is a pace forward, perhaps one 4-dot lego square block.
 - c. Or try a life size version with your whole family, using a twister board, some obstacles placed down and a labelled entrance and exit.



2. Are you able to solve these code sequences in scratch?

Match the script to the polygon it would draw.

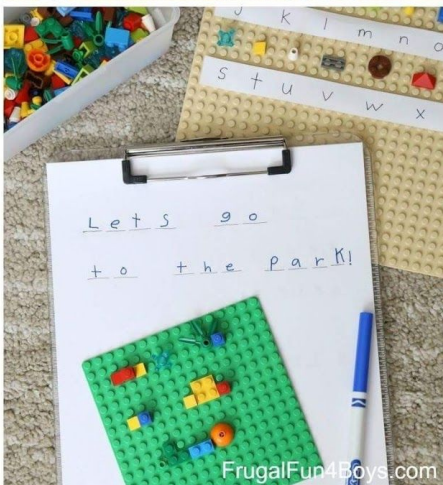
<pre>set pen size to 5 pen down set pen color to purple repeat 4 move 70 steps turn 90 degrees</pre>	<pre>set pen size to 5 pen down set pen color to purple repeat 3 move 70 steps turn 120 degrees</pre>	<pre>set pen size to 5 pen down set pen color to purple repeat 6 move 70 steps turn 60 degrees</pre>	<pre>set pen size to 5 pen down set pen color to purple repeat 2 move 120 steps turn 90 degrees move 70 steps turn 90 degrees</pre>
			

Explain how you worked out your answer...

3. Can you use lego blocks/beads/drawn symbols to create a code? Try them on your family or send the pictures to your friends.
 - a. If you have no lego, try a substitution code on paper, swapping letters around.
 - b. You could also use morse code, I've provided a copy below for you.



LEGO Secret Codes



You can do these activities with parents or siblings, or even send pictures to friends for them to have a go at. Don't feel pressure to email in this for marking, but I am happy to see any photos if you want to show me your efforts.