

STEM@CGI – From Home!

“STEM@CGI At Home” offers weekly STEM based activity packs with practical STEM activities for children. **Get your family involved, learn and have fun!**

ACTIVITY – THE BOAT RACE

In this activity, you will learn how to make a racing game. The player will use the mouse to navigate a boat to an island without bumping into obstacles.

Recommended ages: 8-14 (we will have activities for younger children in coming weeks).



You can [access this activity here](#).



What you will need

A PC/tablet capable of running Scratch 3 and [Scratch 3 software](#) (please note, third party software should not be downloaded on CGI devices).

What you will learn

- How to use operators to compare numbers in Scratch
- How to add code to detect when a sprite is touching a colour in Scratch
- How to use a variable to record the time in Scratch

BONUS ACTIVITIES

The activities are aimed at students aged 8-14 but everyone can get involved!

- [Binary](#) - In this project you will make a game in which you play the notes of a song as they scroll down the Stage.
- [Beat the Goalie](#) - In this project you'll learn how to create a two-player football game in which you have to score as many goals as you can in 30 seconds.
- [Bird Watch Website 1.0](#) - Learn how to code your first website using HTML/CSS.
- [Turtle Snowflakes](#) - Create a beautiful landscape of snowflakes using Python Turtle. This is great fun and a great way to start learning how to code with Python.

Stay healthy and safe!