

# Programme Grids

## DID YOU KNOW?

Cambridgeshire businesses, such as Ninja Theory Game Design Studio, are dedicated to helping young people in Cambridgeshire develop a passion for STEM. Ninja Theory are a BAFTA Award-winning game design studio, producing games as part of the Microsoft and X-Box family. Can your children explore the basics of programming by giving sequences of instructions to be followed?

## NINJA THEORY

### RESOURCES:

- Chalk or masking tape to mark a grid,
- Coloured chalk or floor markers,
- Water pistols, soft balls or bean bags to throw / catch,
- An open space.



### ACTIVITY:

Mark out a grid on the floor, either indoors using masking tape, or outdoors using chalk. Mark out some of the squares with coloured chalk or floor tiles / cones. An adult stands in an empty square, and the children must tell them how to move from their current square to a coloured/marked square.

If an adult is correctly directed to a coloured square, the children get a reward! They can squirt the adult with a water pistol, or throw a soft ball at them, or a bean bag for them to catch - be creative with the reward the children get for successfully navigating the adult to a square. Alternatively, toys could be placed on the coloured squares to be rescued once the adult reaches the square.

### CHALLENGES:

- Can the children give more than one instruction at a time? Can they give two, three or more instructions at once as a sequence?
- Can the children direct each other to move around the grid, following instructions

Cambridge LaunchPad is a collaboration of Greater Cambridge science, technology, engineering and maths (STEM) organisations, who invest their talent and resources to inspire school children and young people into STEM careers. Our Industry Partners and School Partners are at the heart of the programme experience. By connecting education and employment, we can showcase the diverse range of careers and education pathways into STEM industries and meet the growing demand for a skilled workforce in the Greater Cambridge region.