

KS2 - DT - Programming Adventures - Knowledge Organiser

Assessment of Key Skills

...all children should be able to:

- understand how a floor robot moves;
- program it accurately to move along a given route;
- explore and select from a range of different materials to create obstacle squares.

...most children will be able to:

- generate ideas for an adventure map and appropriate obstacles matching their overall theme;
- evaluate adventure maps against design criteria independently;
- explain the best joining methods based on their knowledge of the properties of materials.

...some children will be able to:

- explain why floor robots move differently on different materials using their knowledge of the properties of materials;
- evaluate the effectiveness of different materials and suggest improvements based on observations.

I can programme and control floor robots.

I can generate and develop ideas through discussion

I can research a range of materials

I can plan an adventure map

I can use appropriate materials based on research

I can monitor a floor robot

Floor Robots



Making a Map



Robot programming refers to the **process of developing a control scheme for how a machine interacts with its environment and achieve its goals.** It usually requires a basic knowledge of mathematics and a programming language.

