**Design a Habitat**

You have discovered a new planet! It is similar to Earth however it has no native animals. You decide to introduce animals from Earth to see if they can thrive. Which animals will you introduce? You need to consider the environment and food chains - everything needs to be able to eat! The environments you can choose from are:
- woodland
- African savannah
- rainforest
- arctic

**Space Challenge Card #1**

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**Design a Planet**

It is the year 4690 and you are an employee of the company ‘Magrathea’. They make custom-made, luxury planets. As an employee you can build your own planet exactly as you like it. You need to consider the size, shape and materials your planet will be made of. What habitats and animals will it have? Will the planet be the same all over or will it have different habitats with different animals? Draw a diagram of your planet.

**Space Challenge Card #2**

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**Crash Landing**

You have crash landed! The rescue team can’t get to you until tomorrow so you will have to stay the night. Below are the materials you can recover from the wreckage to make a shelter.

WOOD ALUMINIUM GLASS NYLON PLASTIC IRON RUBBER POLYSTYRENE CORK COTTON WOOL FELT COPPER PAPER

You need to choose a material for the support beams, shelter and ground cover as well as sleeping bags. Make sure you write about why you have chosen each material.

**Space Challenge Card #3**

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**Design a Shelter**

You are going on a mission to explore new planets. You need to design a portable shelter to take with you when you are exploring the planets. Your shelter needs to be...
- light and easy to carry
- strong and durable
- warm, dry, safe and as comfortable as possible

Make sure you consider the structure and materials you will use. Draw a diagram, label the materials used and write about why you have chosen them.

**Space Challenge Card #4**