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## 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

## 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.

## 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.

## 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.



## GUIDE TO THE MILKY WAY

You have been asked to contribute to a guide of the Milky Way. They want you to write a factfile about one of the planets in our solar system. It must include;

- a diagram
- size
- distance from the sun
- length of the days and the years
- weather
- any other interesting facts you think are important

## THE SUN IS MOVING?!

An alien from another solar system is visiting Earth. He has never seen a sun before and is confused as to why it moves through the sky throughout the day. You need to explain to him what the sun is and why it appears to move across the sky towards the horizon. You can use diagrams to help!

## WHAT IS HAPPENING TO THE MOON?

An alien from another solar system is visiting Earth. He has never seen a moon before and is surprised to see that it gets smaller and smaller! You need to explain to him why the moon appears to be getting smaller each night. You can use diagrams to help!

## DESIGN A SHELTER

You have found a new planet! You want to explore on foot but the planet has no natural light! You haven't packed a torch but the spacecraft does have a basic electronics kit. Using the contents of your kit see if you can make a bulb light up. Experiment with different types of circuits and draw a diagram of the one that works. Can you make the bulb any brighter?