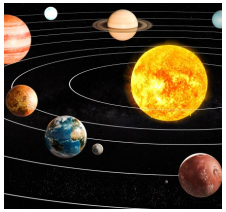


Enquiry Question: How does design aid discovery?

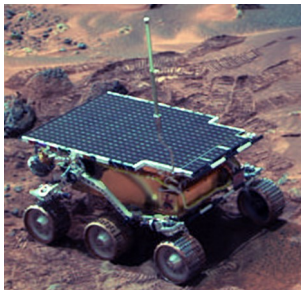
Design and Technology Knowledge Mat



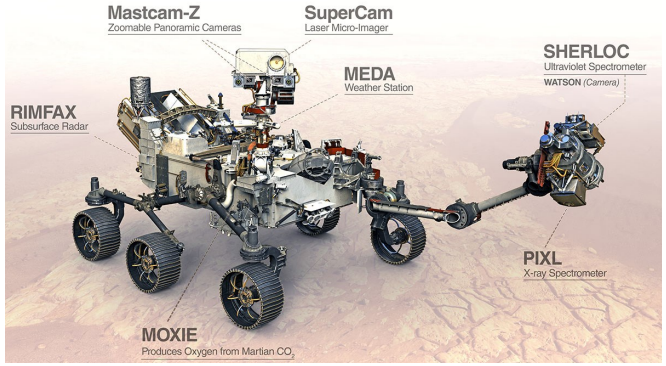
Sticky Knowledge

- To research a product we can use ICT to find out about its functions, appearance and size.
- There were 5 Mars Rovers called Sojourner, Spirit/ Opportunity, Curiosity and Perseverance.
- The designs of Mars Rovers has changed to improve their features, such as better cameras or probes.
- A design criteria is a list of specifications which must be met to make the product successful for the intended audience and purpose
- To create a design we must thinks about who the audience are and what the purpose it.
- A prototype is a draft of a design that can be used to evaluate and make improvements.
- Designers use feedback to develop and improve their products.
- CAD is a compute program which can be used to design 3D models.
- Designers make choices justifying them with ideas from prototypes, design specifications and the feedback given to them.
- Finishing techniques are final touches make to a final product to make it more appealing.

Existing Mars Rovers

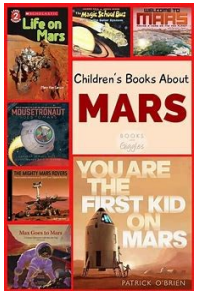


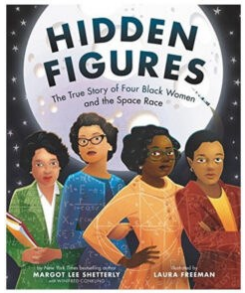
The picture on the left is the first Rover to land on Mars (Sojourner) and the picture below is the Rover, Perseverance, this is the most recent rover to land on Mars. Look at the differences.



Exciting Books







Key vocabulary

component	A part or element of a larger whole, especially part of a machine or vehicle.
investigate	Carry out research or study the facts of something.
feedback	The opinions, corrections, or comments made after being presented with something.
specification	A detailed description of the design and materials to make something.
outcome	The way something turns out
prototype	A prototype is a test, or original, model of a product or a technology from which improvements, upgrades or changes can be made.
function	Something (such as a quality or measurement) that is related to and changes with something else.
annotated	The process of thoughtful reading and making notes.
research	Is an investigation or study to find out facts in order to reach a conclusion.
modify	Make minor partial changes to something.
criteria	A standard by which something may be judged or decided.

Key Skills

As a designer I will...

- Explain how a product will appeal to a specific audience.
- Draft an idea and annotate it with adaptations.
- Evaluate a product against a criteria.