

World Space Week

Lesson 1

twinkl



Learning Objective

- To plan and design a rocket that can be launched.

Success Criteria

- To state what is needed when travelling into space.
- To recognise what makes a good space rocket.
- To plan and design your rocket that can be launched.

Getting Into Space

What sort of things do we need to get us into space?

Use the pictures to help you come up with a list.

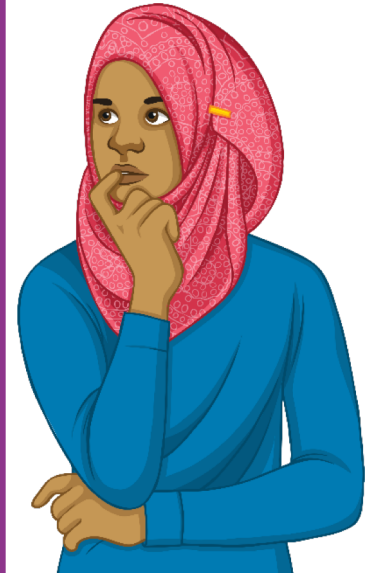


Click the photos to reveal the answers.

Extension

For each item say why you need them.

Can you think of anymore not in the pictures?

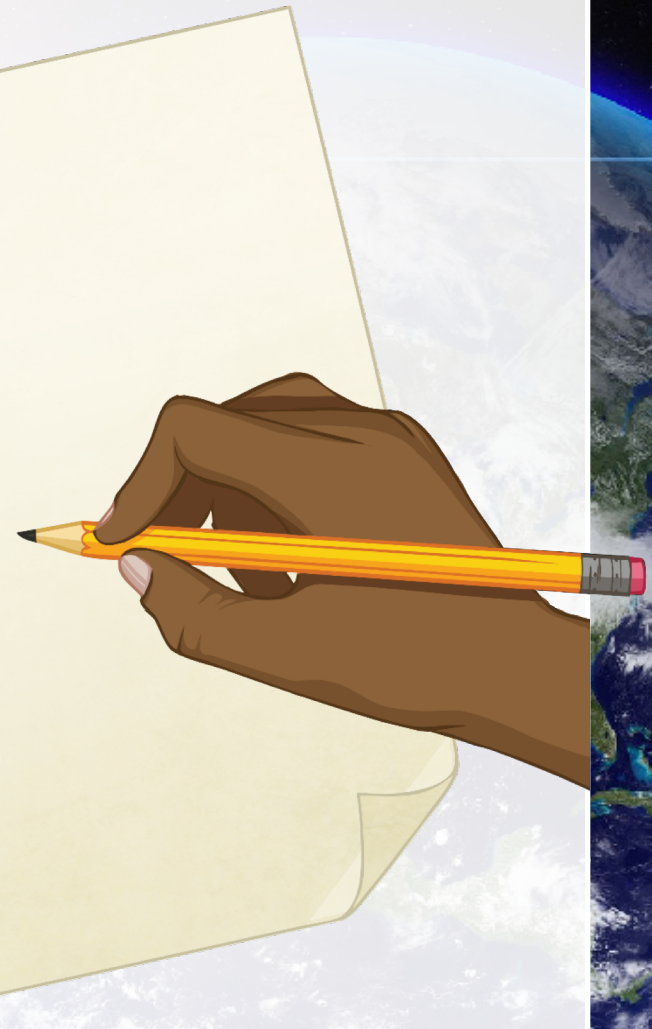


Designing a Rocket

To send a rocket into space a large amount of force is needed.
Why?

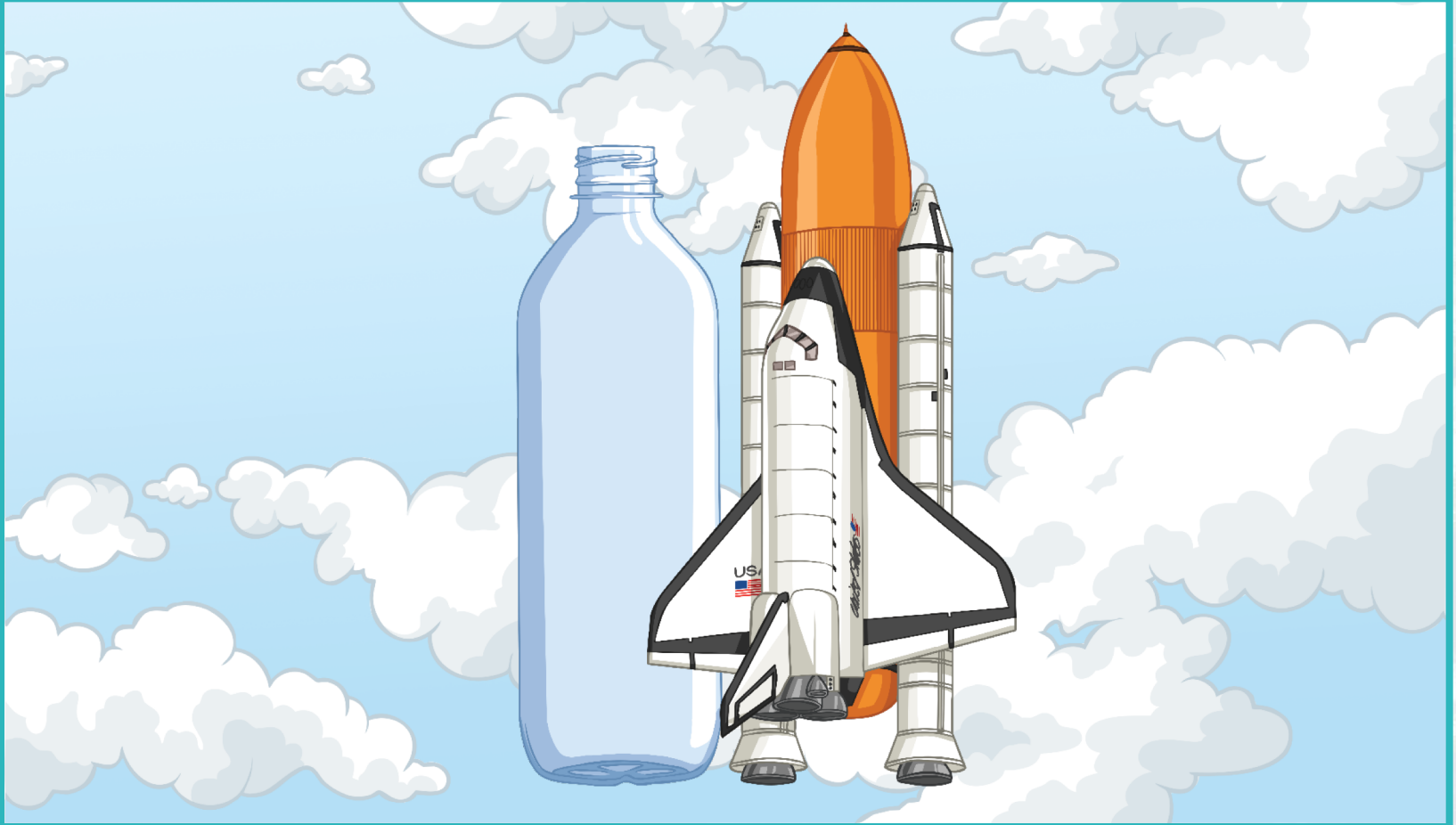
For it to travel quickly through the air the rocket needs to be of a certain shape.
Why?

What forces act on a rocket?
Add the labels to show the forces acting on a rocket.



Challenge

Design, make and test a water rocket.



Things to Consider When Making Your Water Rocket

Whilst you are making your rocket you need to be thinking about what may make your rocket travel further.

Think about:

- name;
- log;
- fins;
- cone;
- the design.



Think about the fuel you will need; how much water will you add to the rocket?

Designing Your Rocket – Plans

On your A4 paper split it into four – sketch four different designs of space rockets with labels.



Describe to an adult or sibling the features you have chosen and why?

Decide which would be the best one and why?



Final Design

Draw this design on A4 paper with labels, explaining why you have chosen each part of the design. You could upload to Showbie.





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