



Activity 1

WHY ARE ROCKETS SO TALL?



Hi, I'm Emily! I'm getting ready to explore space, but I need your help.

Can you use your research, design and building skills to help create a super rocket to take me into space?

Follow my plan below and remember to ask for your adults help with things like cutting. Make sure you have lots of fun and I can't wait to see your creations!

DID YOU KNOW?

Rockets are huge machines that travel into space. Have you seen one?

When engineers are designing new machines like rockets, they make smaller test versions before building the real ones.

YOUR CHALLENGE

1 RESEARCH

Can you research the size shape and materials* that rockets are made from?



2 DESIGN

Design a rocket that you can make using materials found in your home.



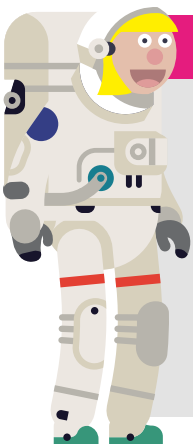
3 BUILD

Build your rocket! Make sure you personalise it with your own decorations!



DON'T FORGET TO TAKE PICTURES!

*SUITABLE FOR YEAR 3 STUDENTS AND ABOVE



EMILY'S TOP TIPS

Ask your grown up to visit this website, www.esa.int/kids

When designing and building, think about what your rocket will stand on so that it doesn't fall over.