

HANSEL & GRETEL ACTIVITY

TO DO:

Can you help finish our story? We need you to do two things:

1. To write step-by-step instructions to get Gretel home.
2. To build a parachute or similar contraption to drop the instructions onto a 'target' i.e. the witch's house.

ACTIVITY INSTRUCTIONS: WHAT WILL CHILDREN BE DOING?

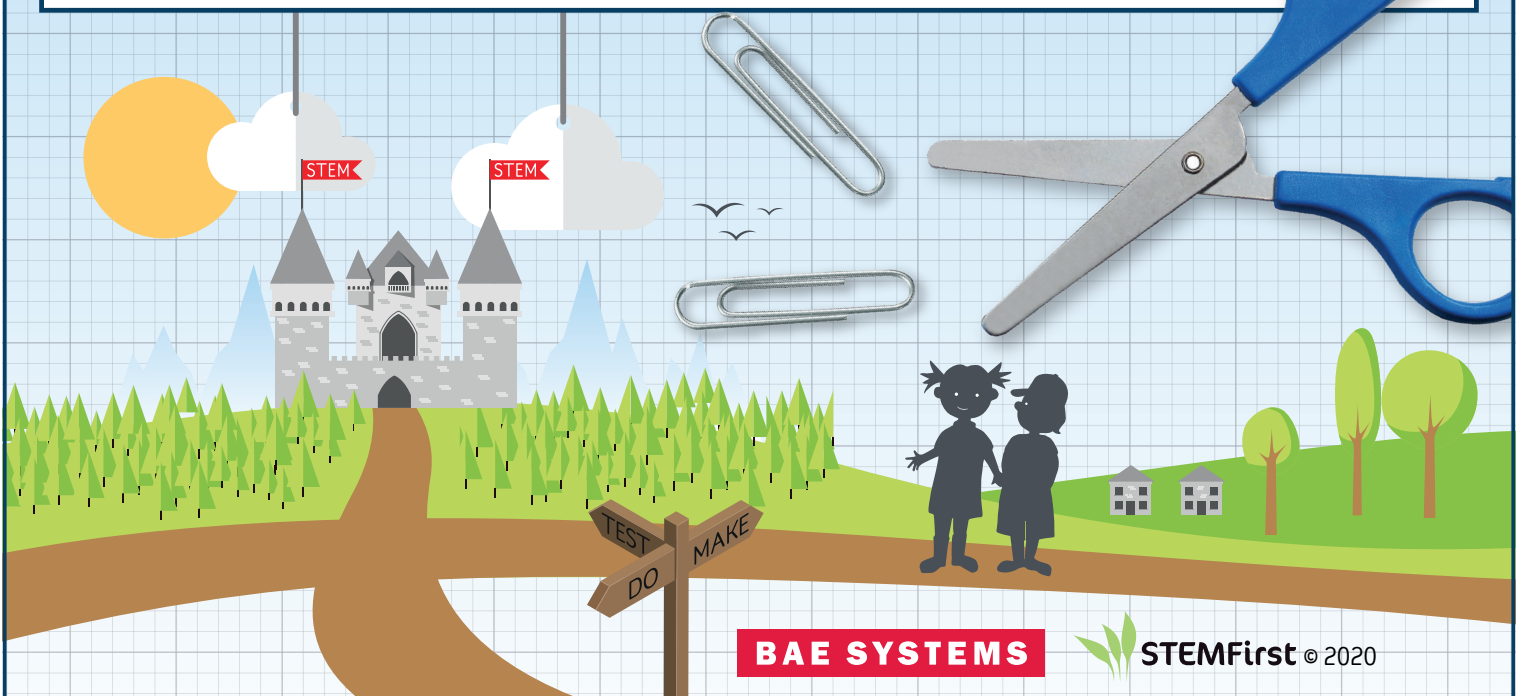
For this activity you need to do the following:

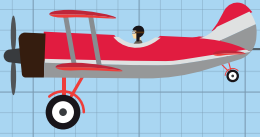
1. Use our maze to write step by step directions to get from the Witch's house back home. Test them and make sure they are right! You need directions and number of steps!
2. Mark a target or spot on the floor. This is the Witch's house where Hansel is trapped. Stand at the other side of the room and then work out how to get the instructions accurately to land on the target. You cannot just throw them! Think about how you could build a device to drop the directions onto the target. Maybe you could build a parachute or a catapult or something else?

Work with your children to design, build and test a solution. Allow your children to demonstrate how their solution works, telling you what they did and what they used. Writing instructions and communicating ideas is very important when you are an engineer!

RESOURCES IN HANSEL'S POCKET COULD INCLUDE:

- Tape
- Lolly sticks
- Tissue paper
- Elastic bands
- Markers / pens
- Print out of our maze
- A target spot marked on the floor at the opposite side of your room!
- Scissors
- Balloons
- Plastic / paper cups
- Paper clips
- String





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STEM IN THE STORY:

Engineers make plans to get things done, but in the story a plan goes wrong. Can you say what went wrong and why?

WHY NOT THINK ABOUT:

Where we find sets of instructions? Can you go on an 'instruction hunt' - they are everywhere when you start looking! Think about recipes, directions, fire safety or new product information leaflets.

Why are instructions important and who do you think writes them?

How would you write your instructions in a way that Hansel can follow easily?

Need inspiration? Then look at our STEM Ambassadors examples!

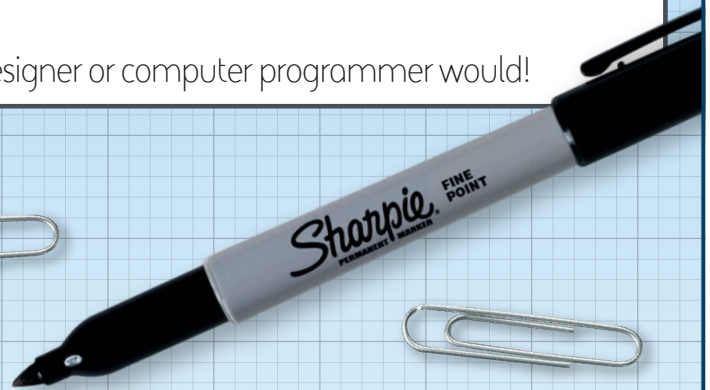
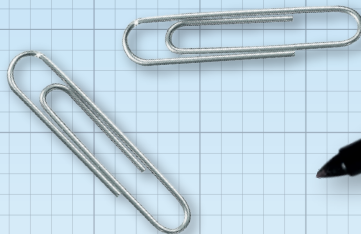
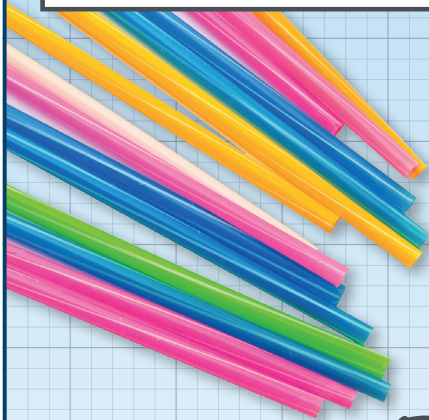
TALK TO YOUR LITTLE ENGINEERS ABOUT:

What other ways could the children have made sure they didn't get lost in the forest?

FOLLOW ON ACTIVITY:

If you enjoyed writing instructions, why not think about writing the instructions for a teeth cleaning robot? Ask an adult to be your robot. Read out your instructions - your robot can only do what you tell them. Did you remember to tell them to stop squeezing the tube? If you haven't thought about all the steps then it could get very messy!

You have been writing instructions just like a software designer or computer programmer would!



TAKE CARE:

In all of these activities please make sure you are working safely. Please have fun but supervise your children to make sure your environment is safe and you take care with any craft equipment or materials you are using. Engineers and Scientists always do!

