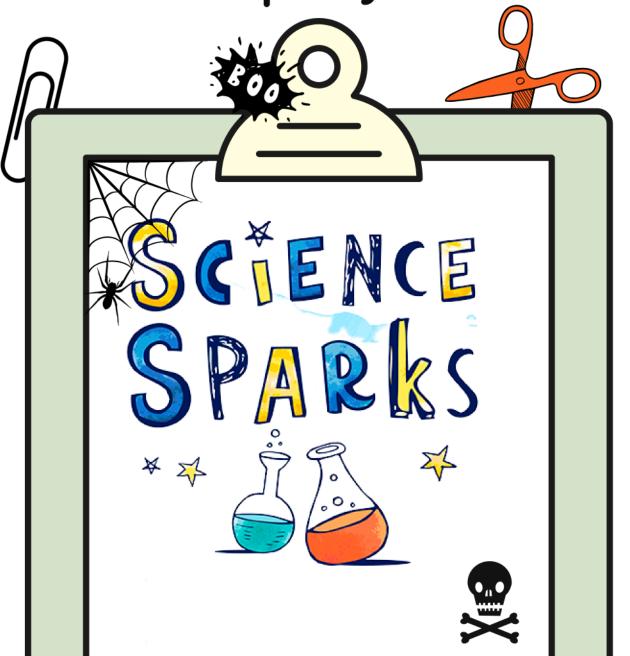
HALLOWEEN PAPER SCIENCE EXPERIMENTS

Cut, stick, play and learn!



What's in the pack

1. Spinning Spiders

Scissors
Paperclips



Container of water



4. How Strong

Glue/tape Mini Pumpkin

Water Drop Maze Water

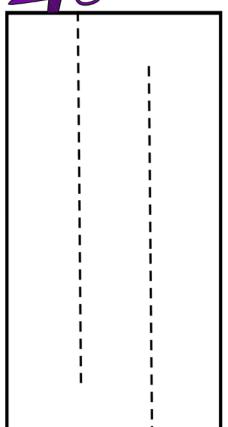


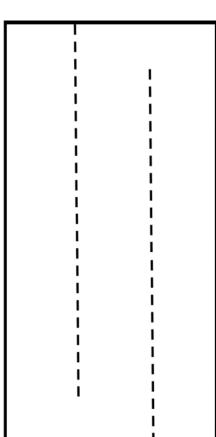


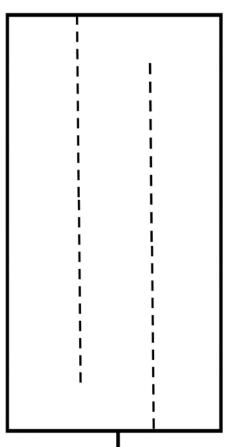


Adult supervision required. You are responsible for your own safety. www.sciencesparks.com

SPINING SPIDERS, TEMPLATE







Supplies needed:

Scissors Paperclip

Instructions

Carefully cut out the three rectangle shapes above. Cut down the scissor lines and fasten the two ends together with a paperclip.



More fun

Experiment with bigger and smaller spinners and different types of paper.



Scissors

Container of water

Instructions

Carefully cut around the large ghost.

Fold up the arms, legs and head.

Place on the surface of the water and watch as the ghost opens!



What's happening?

Paper is made of lots of fibres, as they absorb the water they swell and the paper expands, which makes the ghost open up.



Instructions

Carefully cut around the pumpkin. In a dark room hold the torch behind the shadow puppet.



What's happening?

Shadows are made when an object blocks light. The object blocking the light must be opaque or translucent for a shadow to form.



Build a square, triangle and circular column. Stand them upright and place a mini pumpkin on top. Can any of them hold it without collapsing?

Cut along here
Foldbara
Fold here
Estables
Fold here
Fold here

GLUE/TAPE HERE



Fold here

Fold here

GLUE/TAPE HERE

Cut along here



Fold, glue or tape and balance a mini pumpkin on top





GLUE/TAPE HERE

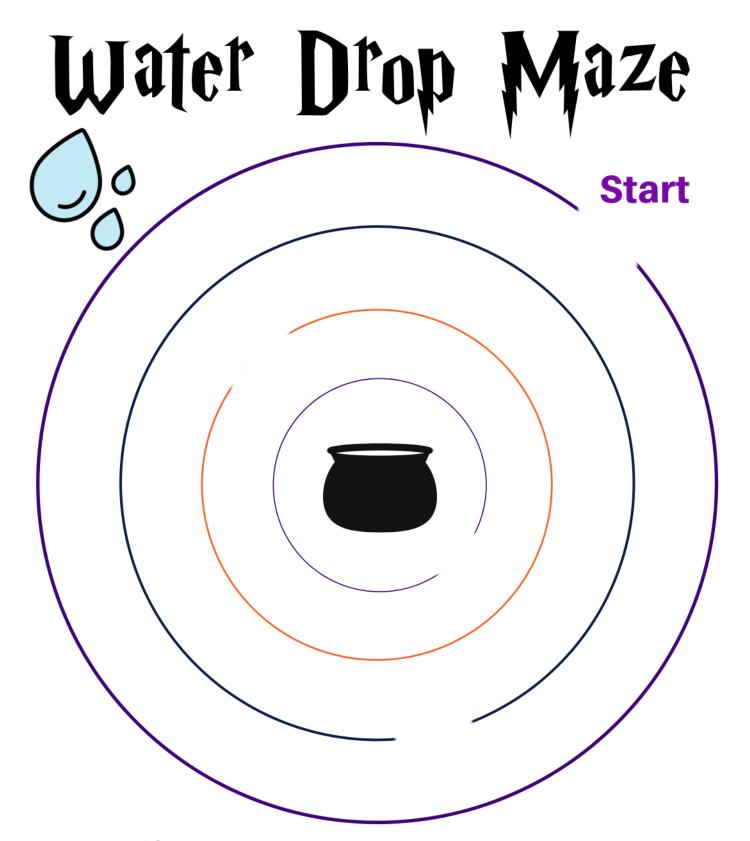
Cut along here





You should find the circular column can hold the most weight. This is because it doesn't have any edges so the weight of the mini pumpkin is shared evenly by the circle.

The square and triangle support the books on their edges and corners meaning they collapse sooner.



Instructions

Place a drop of water at the start point and rotate the paper to move the water through the maze towards the cauldron.



More ideas

Try with a thicker liquid, is it easier?