

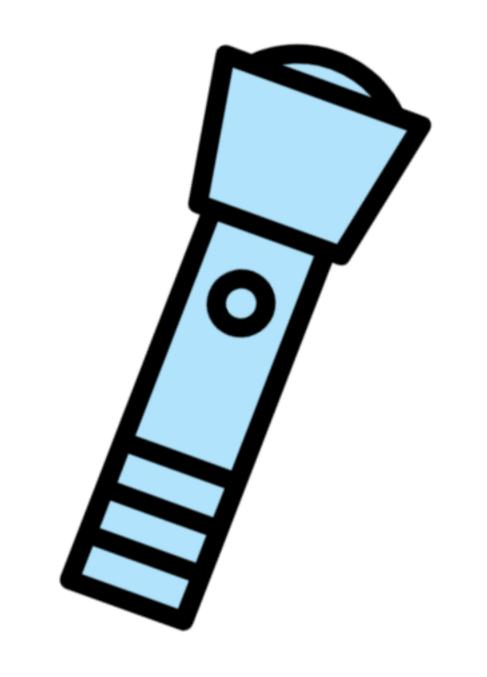
## What's in the pack?

### 1. Snowflake Spinners Scissors Paperclips



### 2. Magic Opening Snowflakes Scissors Container of water

### **3. Penguin Shadow Puppet** Scissors



### Torch

### 4. Jumping Snowflakes Balloon Scissors

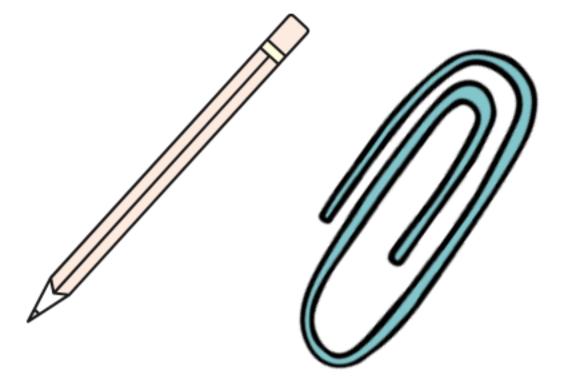
### **5. Water Drop Maze** Water



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

## PAPER SNOWFLAKE

## TEMPLATE



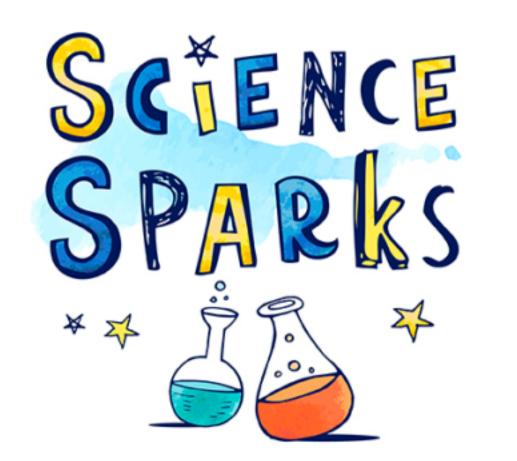


Supplies needed: Scissors Paperclip

### 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.

## MAGIC OPENING

# SNOWFLAKE



### Supplies needed: Scissors Container of water

Instructions

### Carefully cut around the large snowflake Fold up the extended parts around the centre. Place on the surface of the water and watch as the snowflake

opens.

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### What's happening?

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

## Shadow Puppet



### **Supplies needed:** Scissors

Torch

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### Instructions

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### Carefully cut around the penguin 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.

## Jumping Snowflakes

- Cut out the snowflakes and place on the floor. Rub a balloon on your hair and then hold over the snowflakes.
- The snowflakes will jump up to the balloon.

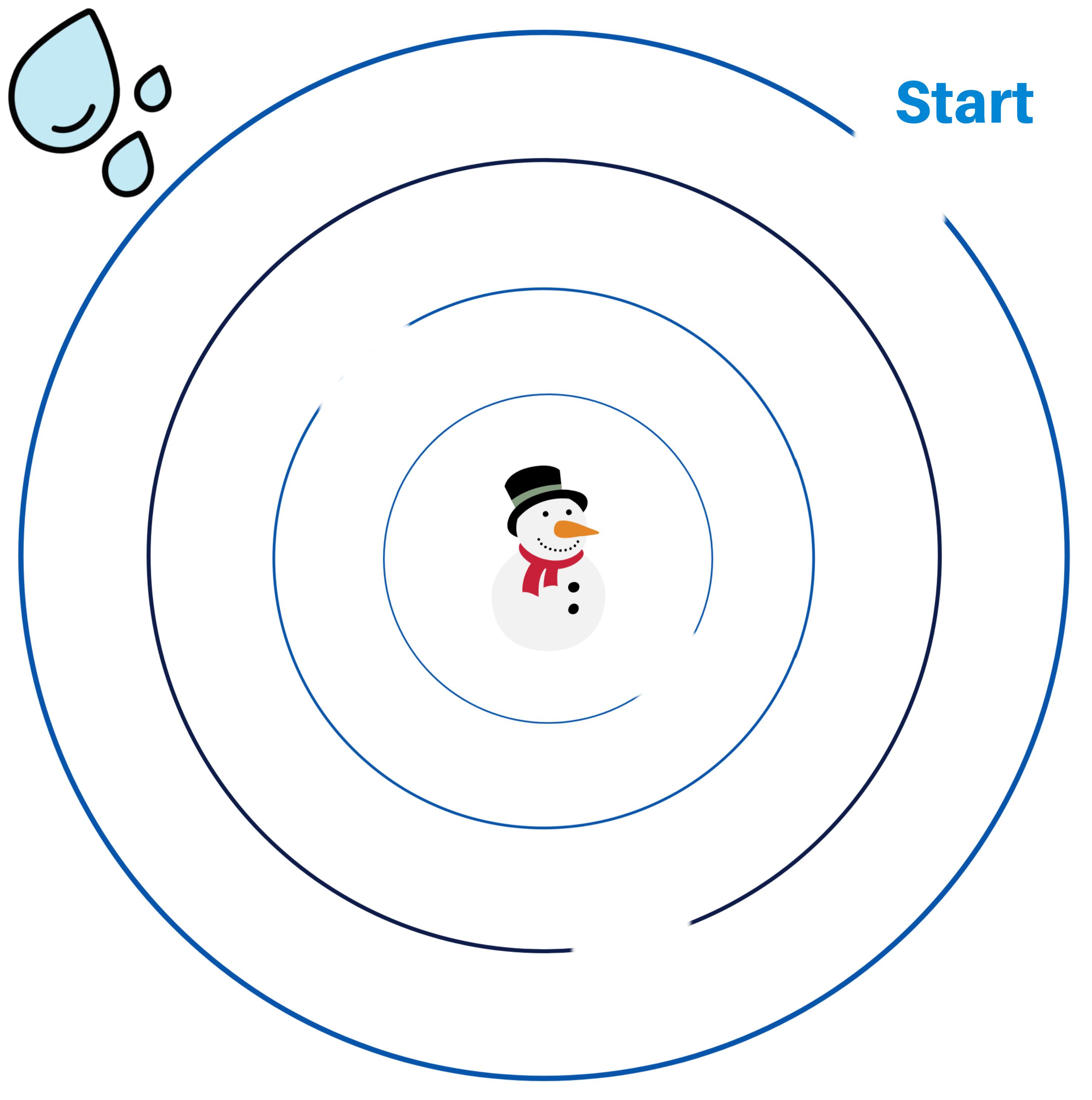








## Water Drop Maze



### Instructions

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

### SCIENCE SPARKS \*\* STARKS Try with a thicker liquid, is it easier?