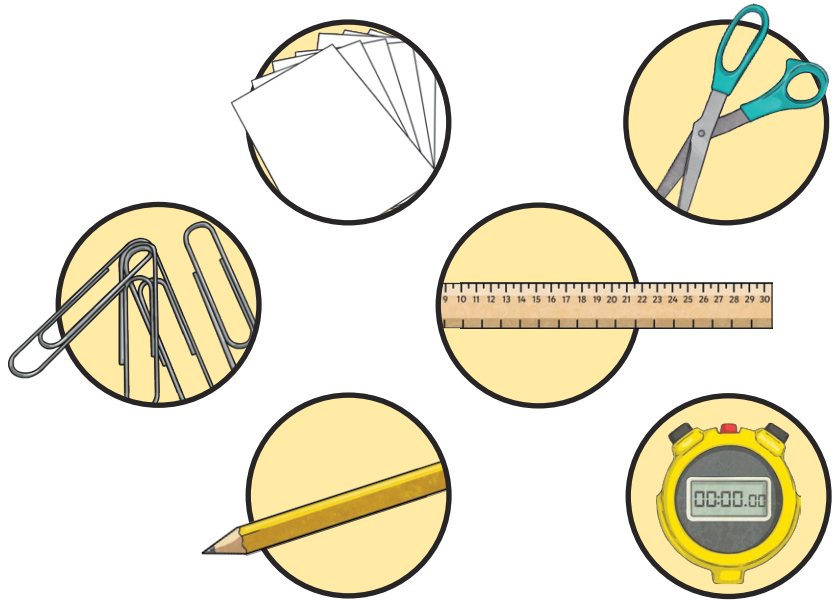


STEM: Paper Spinner Helicopter

You will need:

- A4 copy paper
- scissors
- paperclips
- ruler
- pencil
- timer or stopwatch



Instructions:

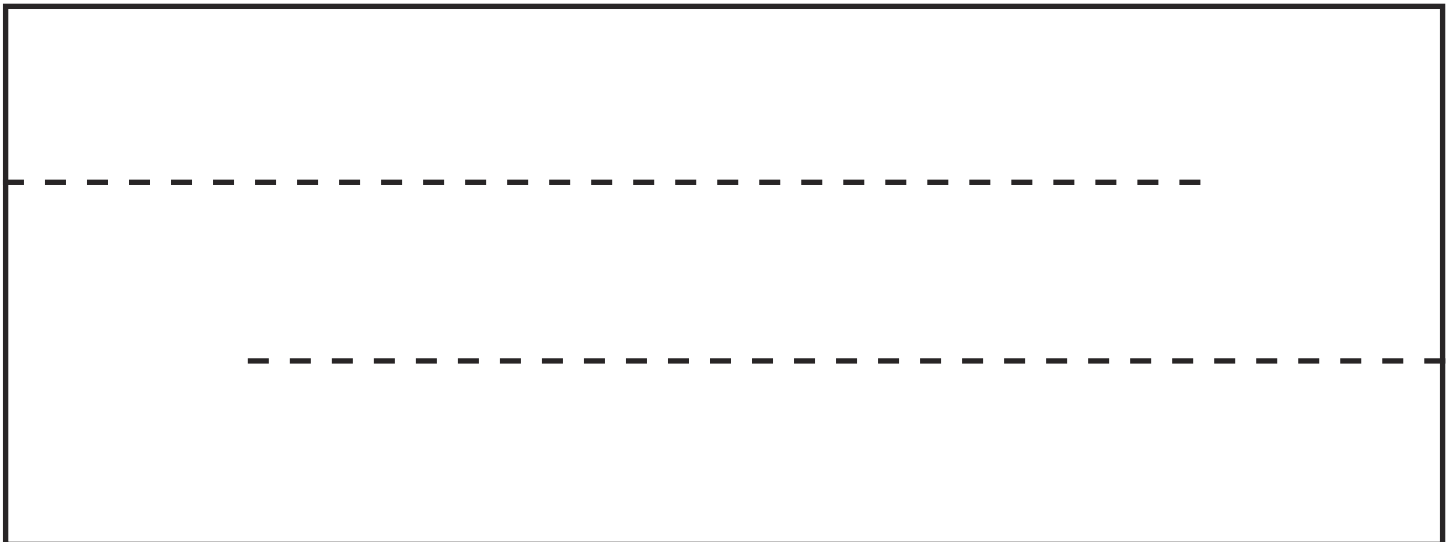
- Cut a rectangle 6 cm x 15 cm from the paper.
- Mark lines along the length of the rectangle 2 cm apart as shown in the diagram.
- Cut along one line stopping 2cm from the end.
- Rotate the rectangle and cut along the other line stopping 2cm from the end.
- Overlap the two ends together at a right angle (90 degrees) and join with a paperclip.
- Your paper strip should be slightly twisted when the ends are joined together.
- Drop your spinner from a height and time how long it takes to reach the ground.

STEM: Paper Spinner Helicopter

Something to think about

- What can you do to speed up or slow down the fall of the spinner?
- Is it affected by different types of paper, the number of paperclips, the size of the spinner or the height it is dropped from?
- Can you make the slowest spinner?
- Can you design a different spinner?

How to mark the rectangle of paper for cutting.



This resource is provided for informational and educational purposes only. As this resource refers to the use of sharp equipment including scissors and small items/loose parts which may present a choking risk you must ensure that an adequate risk assessment is carried out prior to using this resource. You must contact a suitably qualified professional if you are unsure. Twinkl is not responsible for the health and safety of your group or environment. It is your responsibility to ensure the resource and the information/activity it contains are safe and appropriate to use in your situation.