

NAME \_\_\_\_\_

DATE \_\_\_\_\_

# MAKE YOUR OWN MICROSCOPE

- Follow these instructions to make your own microscope – you can examine something else instead of a spider!

## Dare you discover ... how to build your own microscope?

### What you need:

A specimen to study.

FASCINATING  
DEAD SPIDER.



A piece of card

(2.5cm wide by 5cm long).

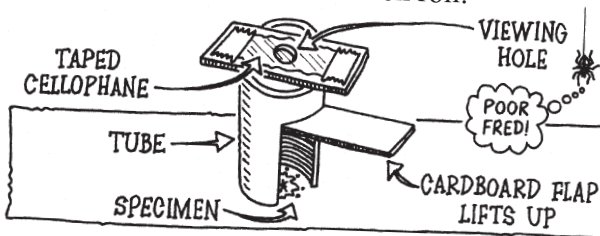
A piece of cellophane (try using the clear wrapping from a greetings card).

Scissors.

Sticky tape.

Pencil or hole punch.

A cardboard tube from a kitchen roll.



### What you do:

- 1 Use the hole punch or pencil point to make a hole 5mm across in the centre of the card.
- 2 Cover the hole with cellophane and secure with sticky tape.
- 3 Cut a length of tube 5cm long and then cut two slots into it, 3cm long and 2.5cm apart, coming down from one end. Lift up the cardboard between the slots to make a little window – make sure it lets in enough light to see what is inside the tube. Place the tube on top of the spider and place the card on top of the tube.
- 4 Pick up a drop of water on the tip of the pencil and let it fall over the cellophane covering the hole. Make sure the drop covers the hole.
- 5 Hold your eye very close to the drop and look through it. You should see the spider's eight eyes and fangs in fascinating close up detail. Just don't let it give you nightmares afterwards!

- How could the design be improved? Note your ideas here and then draw your design.