



Activity worksheet

How do butterflies drink?



Once you have watched the demonstration video and tried out the experiments for yourself, try answering some of these questions:

Question 1

What is the straw-like mouthpart called that butterflies use to 'drink'?

- a) Proboscis
- b) Probe
- c) Probiscus

Question 2

Butterflies use their straw-like mouthpart to reach deep into flowers for...

- a) Seeds
- b) Nectar
- c) Pollen

Question 3

What is the independent variable (the variable that you change) of this activity?

- a) The length of the straw
- b) The width of the straw
- c) The time of the experiment

Question 4

True or false: The narrower the straw, the greater the capillary action.

- a) True
- b) False

Question 5

What force causes the water molecules to travel up the straw via capillary action?

- a) Intermolecular force
- b) Gravitational force
- c) Intramolecular force

Question 6

What is the dependent variable (the variable that you measure) of this activity?

- a) Water volume
- b) Straw width
- c) The distance the water travels

Question 7

Which of the following variables should be controlled in this activity?

- a) The colour of the straws
- b) The width of the straws
- c) Time of straw submersion

Question 8

True or false: The wider the straw, the higher the water rises.

- a) True
- b) False

Answers: b (1), c (2), a (3), b (4), a (5), c (6), c (7), b (8)

Mark out of 8: