



Activity worksheet

Why do slugs and snails need slime?

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



Question 1

Which of the following is NOT a non-Newtonian fluid?

- a) Water
- b) Toothpaste
- c) Cornflour-water mix

Question 5

What DOES NOT happen to the slug and snail slime when a force is applied?

- a) It hardens
- b) It becomes sticky
- c) It changes colour

Question 2

Which of the below do slugs and snails not use slime for?

- a) Movement
- b) Recognising others
- c) Digesting food

Question 6

Why is the cornflour-water mix classed as a non-Newtonian fluid?

- a) Its viscosity depends on force applied
- b) It has a very high viscosity
- c) It has a very low viscosity

Question 3

What is slug and snail slime made from?

- a) Water and salt
- b) Water and glycoproteins
- c) Acid and salts

Question 7

What happens when you apply force to the cornflour-water mix?

- a) Its viscosity decreases
- b) Its viscosity increases
- c) Its viscosity stays the same

Question 4

True or false: the muscular foot applies force to the slime in order to travel

- a) True
- b) False

Question 8

True or false: the toothpaste viscosity decreases when force is applied.

- a) True
- b) False

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

Mark out of 8: