**Questions 1-3**

(Answer these questions online.)

Question 4

Describe a use for water in each of its three states.

(i) _____

(ii) _____

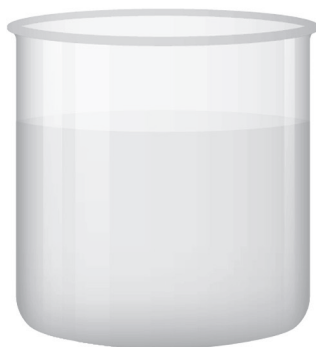
(iii) _____

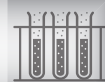
Question 5

Sugar takes on the shape of the container it is in. Why is it not classified as a liquid?

Question 6

What property of gases do Nike Air shoes utilise?



**Question 7**

Explain why carbon dioxide and dry ice are the same substance.

Question 8

(Answer this question online.)

Question 9

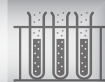
Select one general property for each state of matter, then describe a practical situation where this property is useful.

For example, solids have a fixed shape, which makes materials such as bricks, wood and steel useful as building materials, as they provide structural support.

(a) _____

(b) _____

(c) _____

**Extension Question 1**

Distinguish between liquids and fluids.

Extension Question 2

What is viscosity? Give examples of viscous liquids and describe the effect of temperature on viscosity.

Extension Question 3

Explain why materials such as polystyrene and rubber are classified as solids, even though they are easily compressed.

