

2 A student measures the density of water.

She uses a measuring cylinder and an electronic balance.



(a) State the equation linking density, mass and volume.

(1)

(b) A correct unit for density is

(1)

- ☐ A g/cm
- ☐ B kg/cm
- ☐ C g/cm²
- ☐ D g/cm³

(c) Complete the table to show what is measured by an electronic balance.

(1)

Measuring instrument	What it measures
measuring cylinder	volume
electronic balance	



- (d) Describe how the student should use each instrument to make her measurements as accurate as possible.

(4)

Measuring cylinder

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Electronic balance

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- (e) The student wants to make sure her experiment is a fair test.

(i) State **one** factor that she should keep the same throughout her experiment.

(1)

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(ii) Why is it important that she keeps this factor constant?

(1)

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(Total for Question 2 = 9 marks)

