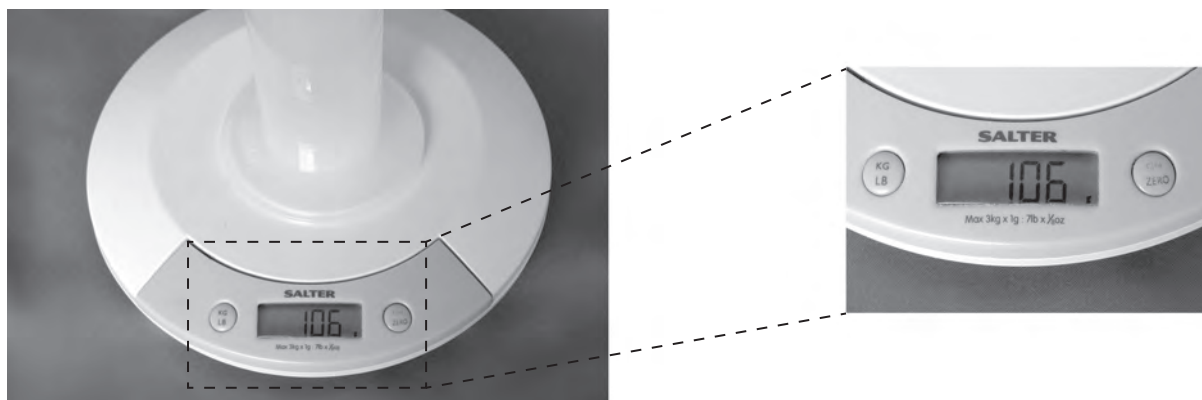


11 A student investigates the density of a liquid.

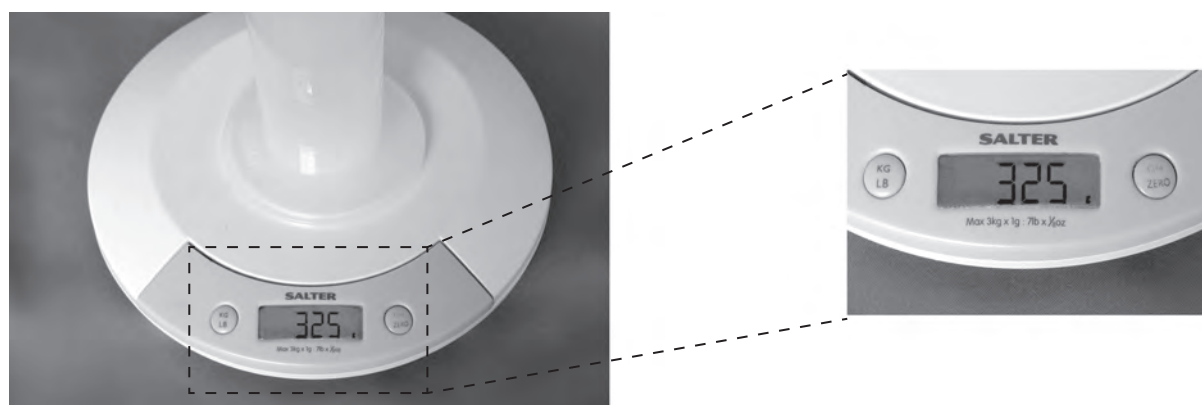
The student uses scales that show mass to the nearest gram.

The student uses a measuring cylinder that is marked with volume in cm^3 .

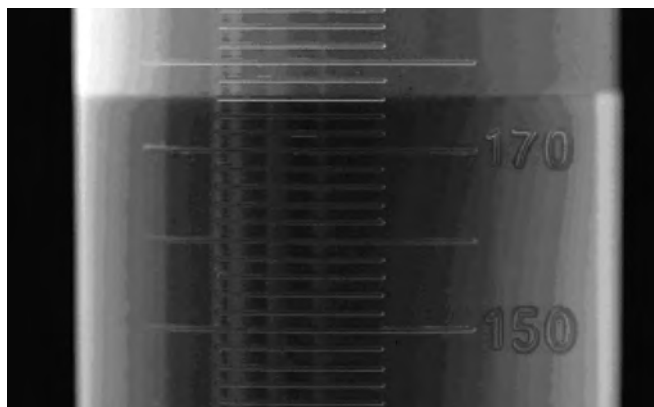
First the student puts an empty measuring cylinder on the scales.



Then the student puts some liquid into the measuring cylinder.



Then the student looks at the level of liquid in the measuring cylinder.



- (a) Complete the results table for this investigation by transferring the information given opposite.

(6)

mass of measuring cylinder and liquid	
mass of empty measuring cylinder	
\therefore mass of liquid in cylinder	
volume of liquid	

- (b) Show how the student should use these results to calculate the density of the liquid.

(2)

- (c) Suggest **two** ways in which the student could improve the investigation to give a more accurate value for the density.

(2)

1

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2

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(Total for Question 11 = 10 marks)

