



**Science Revised Syllabus  
Junior Certificate  
Higher Level**

**Past Exam Questions on  
P Area, Volume and Density**

**Q7 Part (b) 2010**

(b) Why do icebergs *float* on water?

Why? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



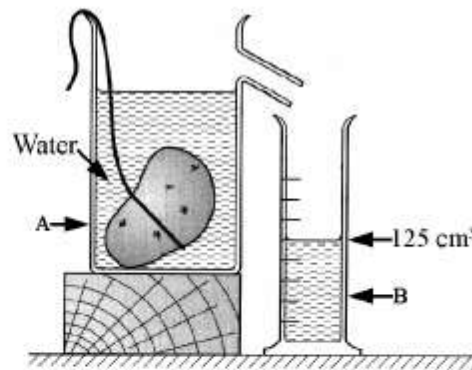
**Q8 Part (a) 2009**

(a) A pupil measured the volume of a potato using the items of laboratory equipment, labelled A and B as shown in the diagram. (6)

(i) Name the items labelled A and B.

A \_\_\_\_\_

B \_\_\_\_\_



(ii) The potato had mass 175 g and volume 125 cm<sup>3</sup>.

Calculate the *density* of the potato.

Give the *units of density* with your answer.

(6)

\_\_\_\_\_  
\_\_\_\_\_

(iii) Why did the potato *sink* in the water?

(3)

\_\_\_\_\_

**Q7 Part (b) 2007**

- (b) Ice floats on water but ice sinks in ethanol (an alcohol).  
Use this information to compare the *density* of *ice* with  
(i) the *density* of *water*; (ii) the *density* of *ethanol*.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

**Q8 Part (b) 2006**

- (b) Describe an experiment to show the *expansion of water* when it *freezes*. (9)  
You may include a labelled diagram if you wish.

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Optional labelled diagram

