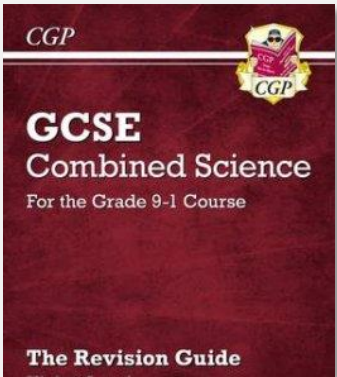
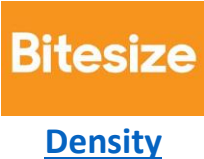





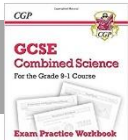
### Step 1 What do I need to know?

- To recall the density equation.
- To be able to calculate the density of a regular and irregular shape.

### Step 2 How do I find out about it?

Revision Guide Page		Web Links
		  <a href="#">Density of a regular and irregular shape</a>
Higher	Pg. 192	
Foundation	Pg. 194	

### Step 3 What can I do to help me learn it?

	Complete the relevant questions in your CGP Science Workbook	Higher	Pages 200
		Foundation	Pages 174

**TASK 1-** Write the density equation and the units it is measured in.

**TASK 2-** Write a methods for calculating the density of an irregular shape, ensure you name equipment (used use the picture below to help you).



**TASK 3 – Answer the following questions:**

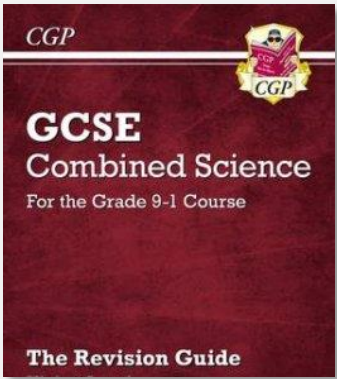


- What is the mass of a tennis ball that's density is  $0.8\text{g/cm}^3$  and volume  $400\text{ cm}^3$ ?
- What is the volume of a shotput that's mass is  $4000\text{g}$  and density is  $40\text{g/ cm}^3$ .
- What's the density of a ping pong ball that's mass is  $30\text{g}$  and volume  $50\text{cm}^3$ ?
- Work out the density of a  $4\text{kg}$  lump of metal with a volume of  $1.25\text{ m}^3$



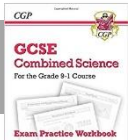
### Step 1 What do I need to know?

- To recall the latent heat equation.
- To be able to calculate the specific latent heat of an object.

### Step 2 How do I find out about it?

Revision Guide Page		Web Links
		 <a href="#">Specific Latent Heat Revision</a>  <a href="#">Specific latent heat explained</a>
Higher	Pg. 194	
Foundation	Pg. 196	

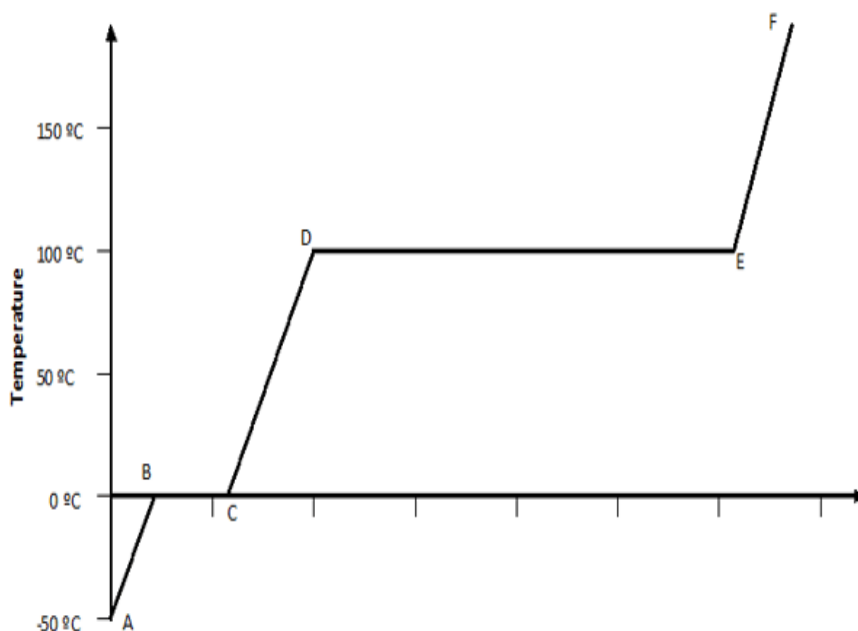
### Step 3 What can I do to help me learn it?

	Complete the relevant questions in your CGP Science Workbook	Higher	Pages 203
		Foundation	Pages 176

**TASK 1-** Define latent heat and write down the latent heat equation.

**TASK 2-** Using the equation, how much energy is needed to melt 0.1Kg of ice when the specific latent of heat of ice is 334,000J/Kg

**TASK 3 –** Using the graph below answer the question in the box.



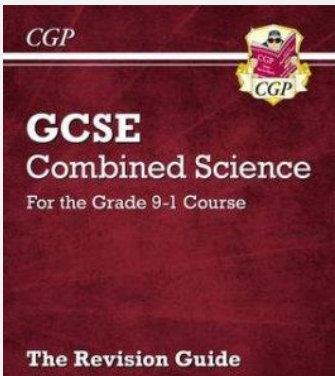


- Between which letters on the graph show latent heat?
- Colour the part of the graph that the substance is solid in red. Where the substance is liquid, colour blue and where it is gas colour green.
- At what temperature did the substance boil?
- At what temperature did the substance melt?



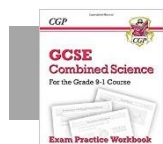
#### Step 1 What do I need to know?

- Know gas particles behave in relation to liquid and solid particles.
- Know how collisions of gas particles increases pressure.
- Know how increasing temperature and can increase pressure.

#### Step 2 How do I find out about it?

Revision Guide Page		Web Links
		 <a href="#">Particles in Gas</a>  <a href="#">Particles in Gas</a>
Higher	Pg. 191	
Foundation	Pg. 193	
Triple (biology)	Pg. 41	

#### Step 3 What can I do to help me learn it?



Complete the relevant questions in your CGP Science Workbook

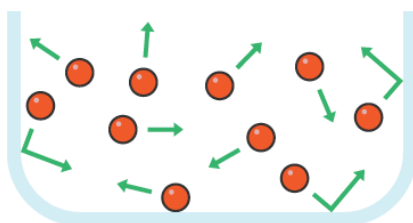
Higher

Pages 198

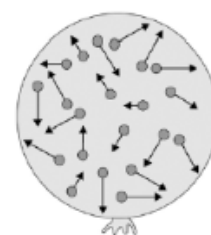
Foundation

Pages 173

**TASK 1-** Use the diagram below to explain how gas particles behave. You will be required to describe the direction and the speed of the particles.



**Task 2-** Using the diagram of this balloon to help, fully explain how gas particles colliding creates pressure. Secondly, how could you calculate pressure?



**Task 3-** Using the term directly proportional; explain what would happen to the pressure inside the balloon if you increased the temperature