

SCIENCE

Year 8 2022

Energy and Material World Practical Test

8Y – Chakari – Monday 2/5 - P3		
8G – Taleski – Monday 2/5 - P3		
8B – Barsoum- Monday 2/5 – P5		
8I – Wheatley - Monday 2/5 – P5		

80 – Wheatley – Thursday 5/5 – P3 8V – Bousaleh - Thursday 5/5 – P5 8P – Barsoum - Friday 6/5 – P2 8R – Baldassarre – Friday 6/5 – P2

Weighting: 15%

Task information:

In this test you will be tested on practical skills you have developed this year. These include *setting up simple electrical circuits, drawing scientific diagrams* and *measuring temperature, volume, mass* and *length*. You will be expected to complete 5 different tasks, each with a time limit of 3 minutes.

You will need to bring a pen, pencil, eraser, ruler and a calculator

There will be no borrowing of any equipment during the test.

Absence:

If you are absent on the day of your exam, you must bring a note from a parent/guardian explaining your absence and report to your science teacher on the day you return to school. A suitable time will then be organised for you to do the test.



Year 8 2022



Energy and Material World Test Notification

All classes: Tuesday 3/5			
8P – Chakari - P1	8R – Baldassarre - P2		
8V – Bousaleh - P1	8B – Barsoum - P5		
80 – Czender - P2	8Y – Chakari - P5		
8I – Wheatley - P2	8G – Taleski - P5		

Weighting: 15%

Task information:

In this test you will be tested on your ability to demonstrate the knowledge and skills outcomes learnt in both the Energy and Material World topics.

The Material World and Energy tick-summary sheet on the reverse of this page outlines the areas of both knowledge and skills covered. Use this to help prepare for the test.

Equipment needed by you is: calculator, pen, pencil, rubber and ruler.

There will be no borrowing of any equipment during the test.

To do your best in the test you should start revising your work now!

Absence:

If you are absent on the day of your exam, you must bring a note from a parent/guardian explaining your absence and report to your science teacher on the day you return to school. A suitable time will then be organised for you to do the test.

GRC Peakhurst Campus

Tick the box when this has been done in class:

Year	8	Sci	ence
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Material	World
Material	woria

Tick the box when you can partially do this: Tick the box when you can do this confidently:

1.	Define the term 'matter' and state that matter is made of particles that are continuously moving and interacting.	
2.	List the properties of solids, liquids and gases.	
3.	Draw the particle arrangement in each state of matter.	
4.	Explain how the particles behave in each state of matter.	
5.	Explain how an increase or decrease in the amount of energy possessed by particles changes their movement.	
6.	Explain the water cycle.	
7.	Design and perform a practical to simulate the water cycle using laboratory equipment.	
8.	Use the particle theory of matter to explain changes in state.	
9.	Identify the benefits and limitations of using models to explain the properties solids, liquids and gases.	
10.	Define the terms 'expansion' and 'contraction'.	
11.	Give examples of where expansion and contraction occur in everyday life.	
12.	Use the particle model to explain why expansion and contraction occur.	
13.	Define 'diffusion'.	
14.	Use the particle model to explain why diffusion occurs.	
15.	give examples of where diffusion occurs in everyday life.	
16.	Use the particle model to explain pressure in gases.	
17.	Define 'density' and calculate the density of various substances.	
18.	Use the particle model to explain density.	

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Tick the box when this has been done in class

Year 8 Science

e box when s been 1 class:		Energy	Tick the box when you can partially do this:	Tick the box when you can do this confidently:
	1.	Identify a range of energy transformations in everyday devices.		
	2.	List seven different types of energy.		
	3.	Name the units for energy.		
	4.	State the Law of Conservation of Energy.		
	5.	Construct and draw electrical circuit diagrams.		
	6.	Describe the transfer of energy occurring in different electrical circuits.		
	7.	Identify the energy transformations in a motor.		
	8.	Identify how heat can be transferred by conduction.		
	9.	Identify how heat can be transferred by convection.		
	10.	Identify how heat can be transferred by radiation.		
	11.	Draw a line graph accurately.		
	12.	Identify that most energy conversions are inefficient and lead to the production of heat energy.		
	13.	Describe the technological changes that have led to more efficient light globes.		

14. Discuss how more efficient light globes can affect society and the environment.