



Subject	Science		
Title/Topic	Format	Length	WC
Paper 1 – Energy and Forces	Multiple Choice	45 minutes	14 November
Paper 2 – Energy and Forces	Written paper	45 minutes	14 November

**In this Advent assessment I will be asked to show I can...**

- Recall the 8 energy stores
- Recall the 4 energy pathways
- Describe energy transfers between stores
- Describe the law of the conservation of energy
- Recall the definition of a system
- Calculate work done using the equation  $\text{Work} = \text{Force} \times \text{Distance}$
- Recall units for energy, force and temperature
- Use the particle model of matter to describe solids, liquids and gases
- Understand density
- Describe changes of state and explain heating/cooling curves
- Describe conduction and convection
- Know what a magnetic field is and how to draw one
- Understand gravity and the difference between mass and weight
- Describe the three effects a force can have
- Name contact and non-contact forces
- Identify balanced and unbalanced forces
- Calculate a resultant force and describe its effect on motion
- Know how to draw a free body diagram
- Recall the equation for pressure and explain pressure in a fluid and pressure on a surface
- Recall vector and scalar quantities
- Describe an electric field



### **What should I do to revise and prepare for this assessment?**

To prepare for this assessment:

1. Complete look, cover, write and check on the knowledge organiser statements from the energy and matter booklet and the forces booklet.
2. Make flash cards of key words and their definitions.
3. Read through the lesson content in the booklets and make notes to help you learn the information.

### **What useful websites/resources could I use to help me prepare?**

Energy stores:

<https://www.bbc.co.uk/bitesize/topics/zc3g87h/articles/zg2sn9q>

Forces:

<https://www.bbc.co.uk/bitesize/topics/z4brd2p>

Particle model:

<https://www.bbc.co.uk/bitesize/topics/zkr4jxs>