

Year 10 Science 2017

Half Yearly Examination Study Guide

The Half Yearly Examination will test your knowledge and understanding of the content that you have learnt in 'Power up!'.

Length: 60 minutes

Structure: **Multiple Choice (15 marks)**
Short answer questions (35 marks)

You should set aside time to study for this task at least two weeks before the due date. To assist you with your revision and the preparation of study notes, you should refer to all classwork and the following guide.

☺ Heat Energy

- Conduction, convection, radiation
- Insulators and conductors
- Relate heat energy transfer to the particle model

☺ Sound Energy

- Characteristics of sound waves
- Transmission of sound waves

☺ Electromagnetic Spectrum

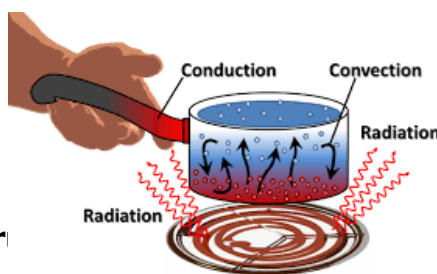
- Definitions of key terms:
 - Wavelength
 - Amplitude
 - Frequency
- Parts of the electromagnetic spectrum

☺ Electrical Energy

- Essential components of a circuit
- Circuit diagrams and symbols for components
- Definitions of key terms:
 - Voltage
 - Current
 - Resistance

☺ Light Energy

- Properties of light waves
- Transmission of light waves
- Reflection
- Refraction
- Reflection and refraction in everyday situations



How to achieve results you can be proud of:

Be prepared! Plan your study time in the two weeks leading up to the exam.
Summarise and read over class work after every lesson.
Ask your teacher for assistance if you find something difficult in class.
Catch up on work missed if you are absent.
Read each question in the exam carefully and underline or circle the keywords. Look at how many marks each question is worth.
Don't leave any answers blank.
If you finish the task early – read over every question and check every answer again.



Equipment you will need: Blue/black pens, pencil, ruler, eraser, sharpener.