

S3 Physics Nuclear Radiation

What is radiation?

- Be able to describe the structure of the atom
- Describe what creates radiation

Types of Radiation

- Be able to state the types of radiation
- Be able to state some artificial and non artificial sources of radiation.
- Recognise types of Nuclear decay

Nuclear Activity

- Be able to state what is meant by nuclear activity
- Be able to calculate the nuclear activity of a source

Nuclear Power

- Be able to explain the term Fission
- Be able to describe parts of a nuclear power plant
- Be able to explain the operation of a nuclear power plant
- Be able to state the three radiations in order of penetrating power

Absorption of Radiation

- Be able to think of safe ways to work with radiation
- Be aware that the energy of radiation can be absorbed by different materials
- Be able to state which absorbers we use for each of the three radiations