

## **Year 11 Nuclear Physics 2021 Evaluation & Analysis Task**

### **Research Assignment: Medical Physics and Dosimetry**

An increasingly important application of nuclear physics is in medicine. Key uses include diagnostic imaging and therapeutic treatments.

Research and make notes on the following concepts:

- The use of radioisotopes in diagnostic imaging including gamma cameras and PET scans
- The use of radioisotopes in therapeutic treatments
- The main ways in which radioisotopes are produced for use in medicine
- Proton therapy and Neutron therapy
- Radiation Dosimetry including Absorbed dose and Dose Equivalent.

The CAP on Monday Week 11 of Term 2 includes a validation test of your understanding of these concepts.

You will not be permitted to have any notes in front of you when you complete the validation test.

Your score in the validation test will be the mark you receive for this assignment.