

Unit Title:	Further Physics for Healthcare Professions
Unit Level:	Three
Unit Credit Value:	3
Unit Code:	WNI453
Unit Type:	Academic Subject Content
Unit Review Date:	31/12/2028
Graded / Ungraded:	Graded

This unit has 3 learning outcomes:

Learning outcomes	Assessment criteria
The learner will:	The learner can:
1. Understand the main types of ionising radiations and their measurement.	1.1. Explain the main types of radioactive decay and characteristic radiations. 1.2. Explain origins, penetration, energy deposition and measurement of different radiations.
1. Understand radioactive decay.	2.1. Understand nuclear decay reactions and describe half-life. 2.2. Carry out a simulation of radioactive decay and analyse the results to show an exponential decay.
3. Understand the main uses of ionising radiation in monitoring and treatment.	3.1. Explain the use of γ -rays in imaging. 3.2. Explain the use of internal sources of radiation in treatment procedures. 3.3. Explain the safety procedures followed when using alpha, beta, gamma radiation and x-rays.

Assessment (Graded)

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|---|-----------------|
| 1. Meets assessment criteria | At least a Pass |
| 2. Further grading | Pass |
| <ul style="list-style-type: none"> Meets assessment criteria but not merit grading standards | |

- Meets assessment criteria and merit but not distinction grading standards Merit
- Meets assessment criteria and distinction grading standards Distinction