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| **What will we be learning?**  Atomic Structure | **Why this? Why now?**  Atomic structure – Chemistry (History of the Atom, Electronic Structure)  Particle Model of Matter – Physics  AQA Physics | **Key Words:**  Make sure you know the definitions of these keywords and use them in your answers.  Radioactivity  Radioactive decay  Irradiated  Contaminated  Geiger counter  Atomic Number  Mass Number  Isotope  Ionisation  Half – life  Count rate  Fission Fusion  Moderator  Control Rods  Chain Reaction  Plasma  Background Radiation |
| **What will we learn?**    Common Misconceptions: Nuclear disasters have been responsible for more deaths than fossil fuels.  One radioactive material only emits one type of radiation. | |
| **What opportunities are there for wider study?**  Collins Revision guide relevant pages for this unit:  Triple: 86-93 Higher: 212-217 Foundation: 204-209  Nuclear Engineer Chemical Engineer Metal Manufacturing Materials Fracture Specialist Radiographer Cancer Specialist Research Physicist | |
| **How will I be assessed?**  Deep Marking Task Title for this unit: History of the Atom | |