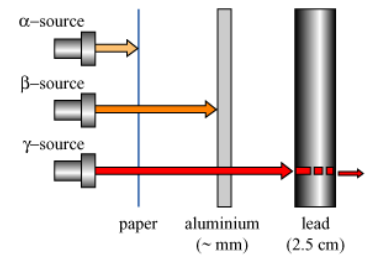
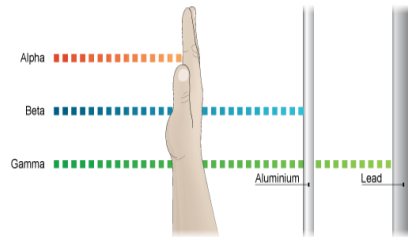
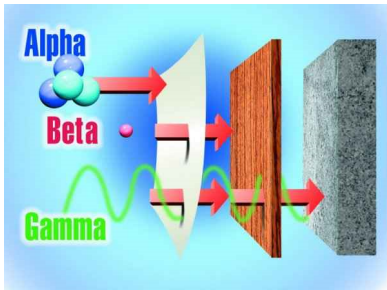


Radiation

def: The emission of energy in the form of rays.



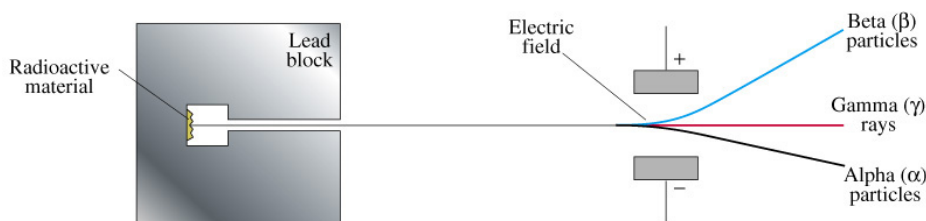
Types of radiation

| Type | Charge | Symbol | Stopped by |
|-------|--------|----------|-----------------|
| Alpha | + | α | paper |
| Beta | - | β | wood or Al |
| Gamma | X | γ | concrete + Lead |

Radiation Explained Alpha Beta Gamma 1960s Mr Wizard.mp4

Seperation of Alpha, Beta, and Gamma Rays.mp4

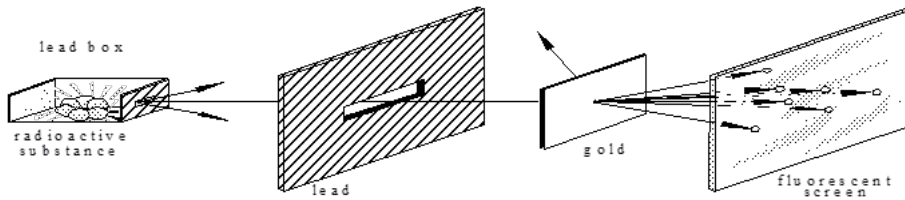
Why are beta, gamma and alpha placed in that order in the picture?



Uses of radioactive isotopes - Chemistry.mp4

Past Exam Questions

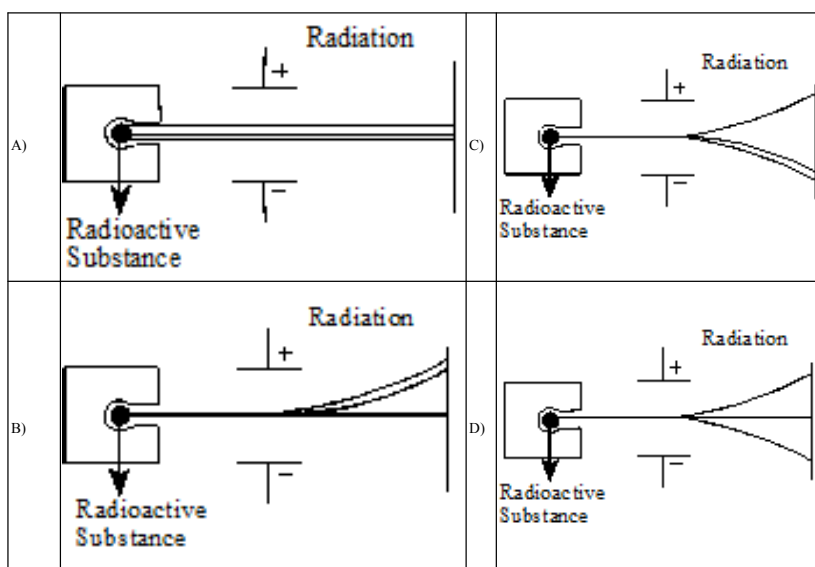
1. The famous experiment that Rutherford carried out is illustrated by the following diagram



Which of the following statements is in agreement with Rutherford's results?

- A) Most of the alpha particles are not deflected because the nucleus is composed of neutrons.
- B) Most of the alpha particles are not deflected because the atom is composed mostly of empty space.
- C) Most of the alpha particles are deflected because they are attracted to the nucleus.
- D) Most of the alpha particles are deflected because they are repelled by the protons.

2. Which of the following diagrams accurately represents the behaviour of the different types of radioactivity?



Attachments



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Seperation of Alpha, Beta, and Gamma Rays.mp4



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