**Radioactivity**

Table of Contents

[Decay Reasons 3](#_Toc69050873)

[Rutherford’s Scattering Experiment 3](#_Toc69050874)

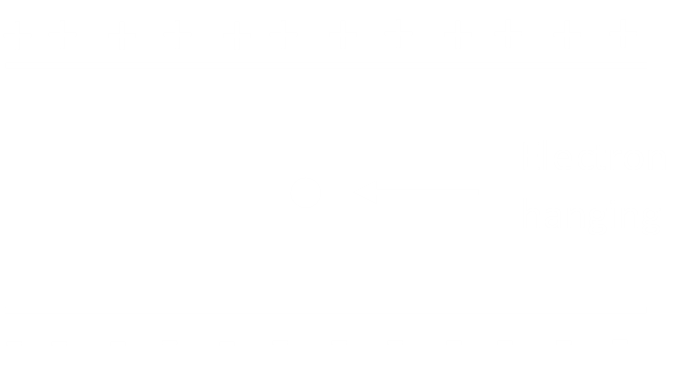
[Types of Radioactive Decay 4](#_Toc69050875)

– Atomic Number

– Neutron Number

– Electron Number

For elements where , radioactivity is likely to take place.



– radius of the nucleus

## Decay Reasons

– decay

### Rutherford’s Scattering Experiment

Gold ()

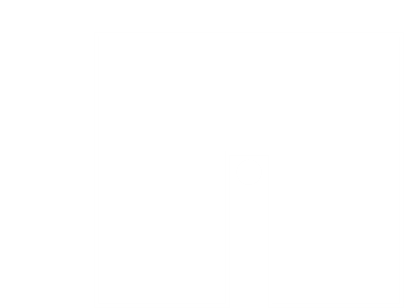
Energy of

– radius of

– radius of nucleus

### Types of Radioactive Decay

* decay
* decay
* decay
* Positron emission
* Electron capture



Mass absorption coefficient

– distance from source to point of no radiation

