


NUCLEAR CHANGE

Alpha Radiation

- Alpha particle:

 - Effect on mass number:


 - Effect on atomic number:
- 

NUCLEAR CHANGE

Beta Radiation

- Beta particle:

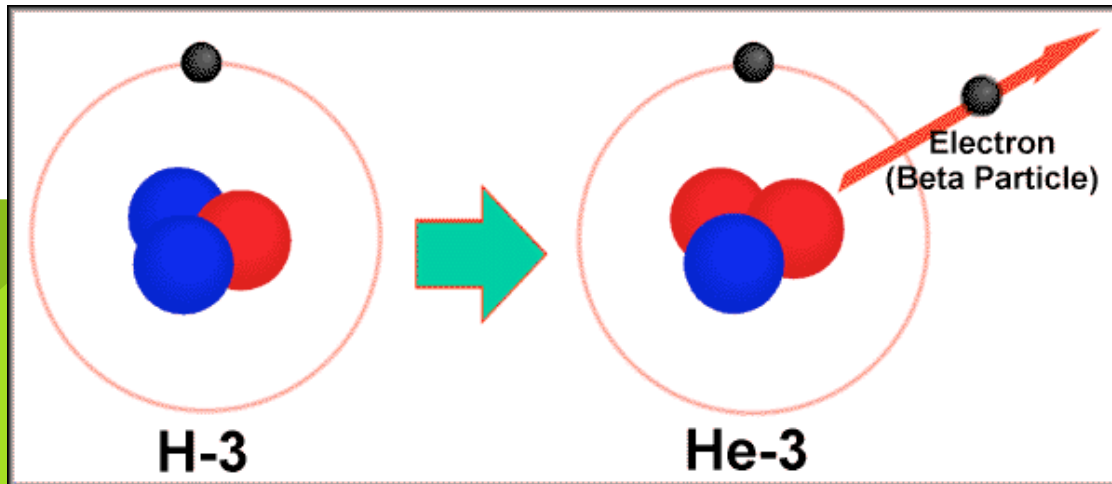
 - Effect on mass number:

 - Effect on atomic number:
- 

NUCLEAR CHANGE

Beta Radiation

- How does an electron come out of the nucleus?




NUCLEAR CHANGE

Gamma Radiation

- Gamma emission:

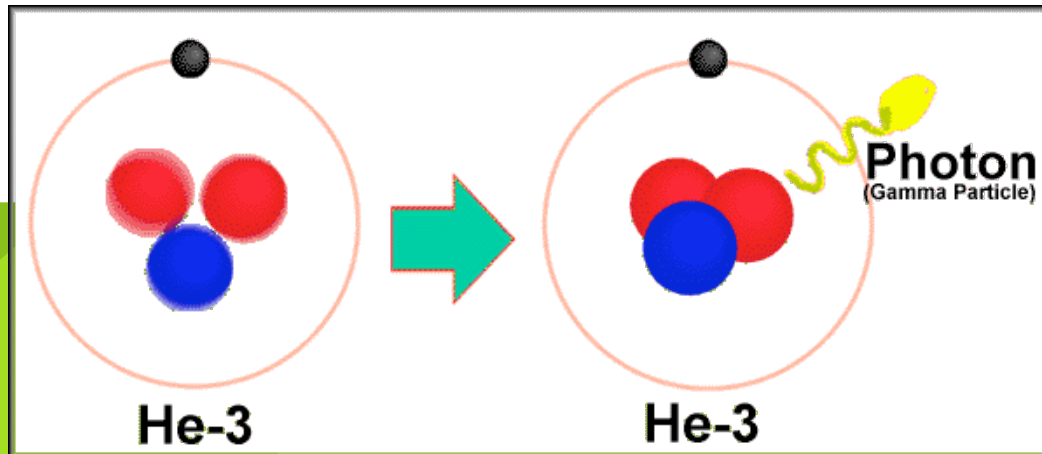
 - Effect on mass number:

 - Effect on atomic number:
- 

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Gamma Radiation

- Why is it gamma “emission” instead of gamma “particle”?



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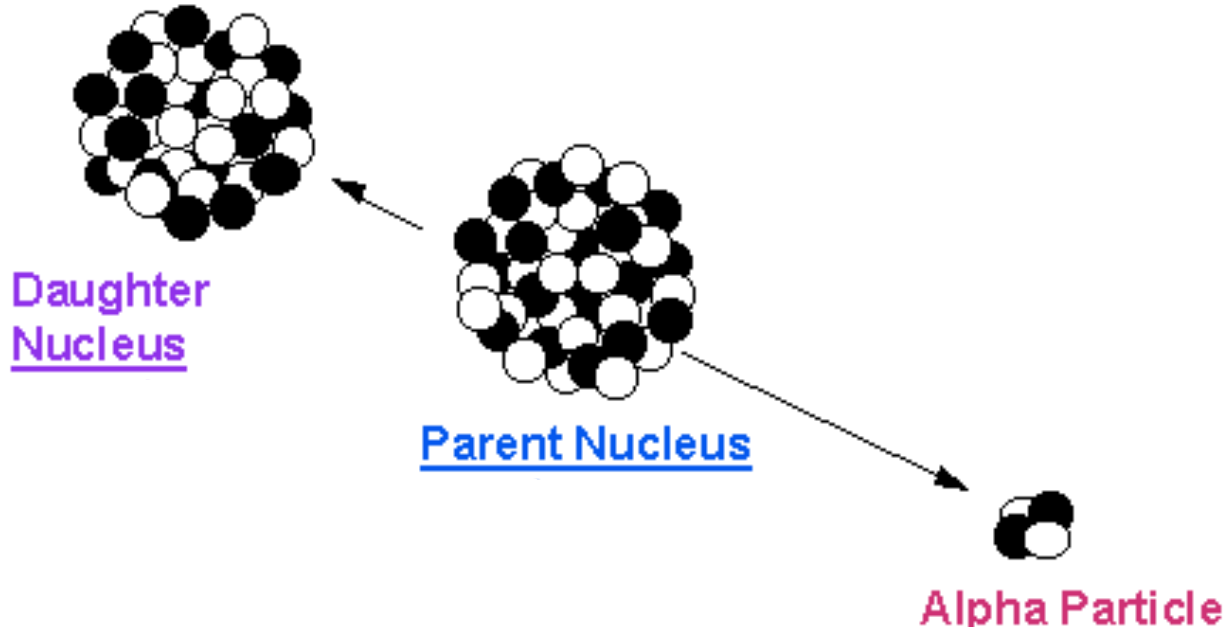
Nuclear Equations

- Write the nuclear equation for the alpha decay of uranium-235.

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Nuclear Equations

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Nuclear Equations

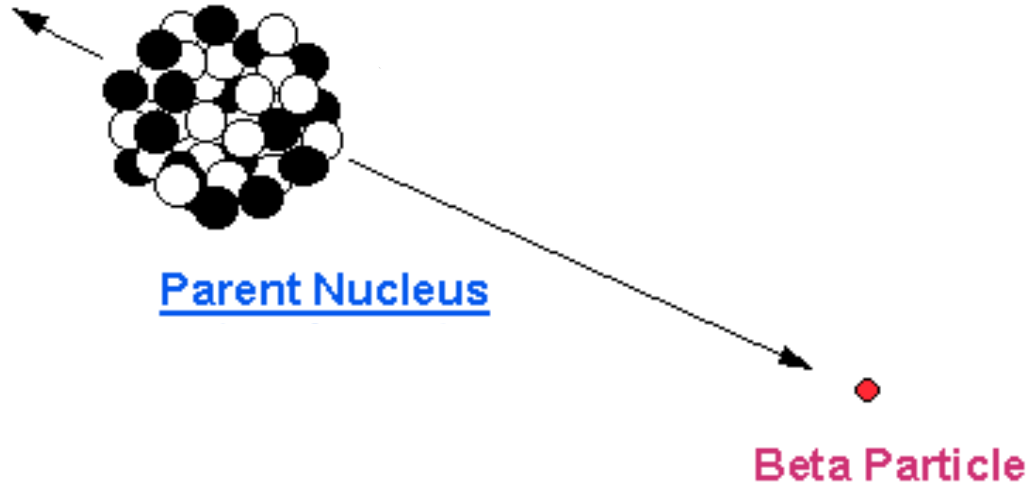
- Write the nuclear equation for the beta decay of potassium-40.

NUCLEAR CHANGE

Nuclear Equations

- Write the nuclear equation for the beta decay of potassium-40.

Daughter
Nucleus



NUCLEAR CHANGE

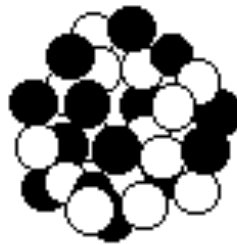
Nuclear Equations

- Write the nuclear equation for the gamma decay of cobalt-60.

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Nuclear Equations

- Write the nuclear equation for the gamma decay of cobalt-60.



Gamma Rays

Parent Nucleus

Daughter Nucleus

NUCLEAR CHANGE

Nuclear Equations

- Write the nuclear equation for the gamma decay of ^{106}Ag .

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Nuclear Equations

- Write the nuclear equation for the alpha decay of ^{222}Rn .

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Nuclear Equations

- Write the nuclear equation for the beta decay of ^{14}C .

NUCLEAR CHANGE

Radiation Penetration



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Radiation Type	Particle Emitted	Stopped by	Effect on Mass #	Effect on Atomic #