Beta + Decay
Questions for GCSE Physics

1. What type of particle is emitted during beta-plus decay?

2. Describe the change that occurs to a proton in the nucleus during beta-plus decay.

3. State the relative charge of a beta-plus particle.

4. State how the atomic number changes during beta-plus decay.

5. Explain why the mass number remains unchanged during beta-plus decay.

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6. Magnesium-23 (atomic number 12 and symbol Mg) decays by beta-plus emission into sodium (Na). Write a balanced nuclear equation for this decay.

7. Flourine-18 (atomic number 9 and symbol F) decays by beta-plus emission into oxygen (O). Write a balanced nuclear equation for this decay.

8. Carbon-11 (atomic number 6 and symbol C) decays by beta-plus emission into boron (B). Write a balanced nuclear equation for this decay.

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