



- What does CERN stand for and what goes on there?
- What modern day discoveries and developments have come about due to work at CERN?
- Describe what happens when matter and anti-matter meet. Discuss whether anti-atoms are possible.
- Describe what is meant by a particle interaction. Describe (with the help of diagrams) 3 different types of particle interaction.
- Explain why charged particles attract or repel each other. Describe an exchange particle.

- Explain the photoelectric effect.
- Why was Einstein's photon model revolutionary?
- Explain what is meant by the terms "ionisation" and "excitation", of an atom.
- Explain the differences between transverse and longitudinal waves. Describe a physics test to distinguish between the two.