

(Relative electrical charges of subatomic particles)

Q1. (2020)

The radius of a nucleus is approximately 1×10^{-14} m

The radius of an atom is approximately 1×10^{-10} m

A teacher uses a ball of radius 1 cm to represent the nucleus.

What could represent the atom on the same scale?

[1 mark]

Tick (✓) **one** box.

A ball of radius 10 cm

☐

A sports arena of radius 100 m

☐

An island of radius 10 km

☐

A planet of radius 1000 km

☐

Q2. (2022)

This question is about atoms.

Atoms contain three types of particle:

- electrons
- neutrons
- protons.

Which particle has no electrical charge?

[1 mark]

Tick (✓) **one** box.

Electron

☐

Neutron

☐

Proton

☐