

**Answer ALL questions.**

- 1 The photograph shows a person using a roll of plastic wrapping to cover a plate of food.

The plastic wrapping sticks to the plate due to electrostatic charges.



(Source: © goffkein.pro/Shutterstock)

The passage explains why the plastic wrapping sticks to the plate.

Use words from the box to complete the passage.

Each word may be used once, more than once, or not at all.

attract

electrons

negative

neutral

neutrons

positive

protons

repel

The person pulls a layer of plastic wrapping from the roll.

Forces between the layers of wrapping transfer particles called ..... from one layer to another layer.

The layer gaining these particles acquires a ..... charge.

The layer losing these particles acquires a ..... charge.

The negatively charged layer of wrapping repels ..... in the plate, leaving a positive charge in the plate where it touches the plastic wrapping.

The wrapping and plate ..... due to them having opposite charges.

**(Total for Question 1 = 5 marks)**

