CiE iGCSE Physics Checklist

Section 26: Electrical quantities 1

|  |  |  |  |
| --- | --- | --- | --- |
| ***I can***  | ☺ | 😐 | ☹ |
| **CORE** |  |  |  |
| State that there are positive and negative charges |  |  |  |
| State that unlike charges attract and that like charges repel |  |  |  |
| Describe simple experiments to show the production and detection of electrostatic charges |  |  |  |
| State that charging a body involves the addition or removal of electrons |  |  |  |
| Distinguish between electrical conductors and insulators and give typical examples |  |  |  |
| State that current is related to the flow of charge  |  |  |  |
| Use and describe the use of an ammeter, both analogue and digital |  |  |  |
| State that current in metals is due to a flow of electrons |  |  |  |
| **SUPPLEMENT** |  |  |  |
| State that charge is measured in coulombs  |  |  |  |
| State that the direction of an electric field at a point is the direction of the force on a positive charge at that point |  |  |  |
| Describe an electric field as a region in which an electric charge experiences a force |  |  |  |
| Describe simple field patterns, including the field around a point charge, the field around a charged conducting sphere and the field between two parallel plates (not including end effects) |  |  |  |
| Give an account of charging |  |  |  |
| Recall and use a simple electron model to distinguish between conductors and insulators |  |  |  |
| Show understanding that a current is a rate of flow of charge and recall and use the equation I = Q / t  |  |  |  |
| Distinguish between the direction of flow of electrons and conventional current |  |  |  |