

### **2024-25 Y8 Spring assessment Knowledge Questions**

Q. What is a circuit with more than one branch known as?

A. Parallel circuit

Q. What is a circuit which is one continuous loop known as?

A. Series circuit

Q. What forces are exerted by magnets?

A. Attraction and repulsion

Q: If a north pole of a magnet comes into contact with a north pole of another magnet, what will occur?

A: Repulsion

Q. True or false, an electromagnet cannot be turned off.

A. False

Q. What is current measured in?

A. Amps

Q. Define the term current

A. Measure of how much electric charge flows through a circuit

Q: What does the term resistance mean?

A: How easy or difficult it is for charges to pass through a component

Q: What do we use to measure the current in a circuit?

A: Ammeter

Q: How should a voltmeter be placed in a circuit?

A: In parallel

Q: What is resistance measured in?

A: Ohms

Q: What is potential difference measured in?

A: Volts

Q: What is the difference between a cell and a battery?

A: A battery is multiple cell

Q: Are metals good conductors or good insulators?

A: Good conductors

Q: Atoms contain an equal number of electrons and protons. What overall charge does an atom have?

A: Neutral

Q: What is the charge of an electron?

A: Negative

Q: What is the charge of a neutron?

A: Neutral

Q: What is the charge of a proton?

A: Positive

Q: Why are metals good conductors?

A: They have delocalised (free) electrons

Q: Which gas makes up the **largest** proportion of our atmosphere?

A: Nitrogen

Q: What is the name of the process where an increase in carbon dioxide in the atmosphere results in an increase in the average **air temperature**.

A: Global warming

Q: Name the **three** different types rocks

A: Sedimentary, metamorphic, igneous