

# **Electric Charge Quiz PDF**

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#### What is the SI unit of electric charge?

⊖ Ampère

⊖ Volt

⊖ Coulomb

⊖ Ohm

## Describe how electric potential is related to electric field and work done.

#### Explain the principle of conservation of charge and provide an example.

#### Which materials are typically used as conductors?

Silver

Rubber

Aluminum

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Glass

#### What are characteristics of insulators?

- □ Allow free movement of electrons
- Do not conduct electricity well
- Have tightly bound electrons
- Are typically metals

#### What is the charge of a proton?

- Negative
- O Positive
- $\bigcirc$  Neutral
- Variable

#### What is the smallest unit of electric charge?

- O Proton
- Neutron
- ◯ Electron
- Elementary charge

#### Which of the following is a conductor?

- ◯ Rubber
- ⊖ Glass
- Copper
- $\bigcirc$  Wood

#### Which methods can charge an object?

- Friction
- Conduction
- Induction
- Polarization

#### Which type of charge do electrons possess?

O Positive



- Negative
- O Neutral
- Variable

What role did Benjamin Franklin play in the study of electric charge?

#### Which law describes the force between two point charges?

Ohm's Law

○ Newton's Law

○ Coulomb's Law

○ Faraday's Law

# Explain how Coulomb's Law can be used to calculate the force between two charges and provide a sample calculation.

# What are the effects of static electricity?

Lightning

Magnetic fields

Static cling

Electric currents

#### How does polarization occur in an insulator when exposed to an electric field?

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# Which process involves charging an object by direct contact?

- ◯ Induction
- $\bigcirc$  Conduction
- Friction
- $\bigcirc$  Polarization

#### What happens when two like charges are brought close to each other?

- They attract
- ◯ They repel
- They neutralize
- They remain unaffected

# Discuss the process of charging an object by induction and provide a real-world example.

#### Which of the following statements about Coulomb's Law are correct?

- The force is inversely proportional to the square of the distance
- The force is directly proportional to the product of the charges
- □ It applies only to stationary charges
- □ It is a vector quantity

# Which of the following are true about electric fields?

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☐ They are scalar quantities

They exert forces on charges

They have direction and magnitude

They can be represented by field lines

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