

Electricity WebQuest

Part 1: www.sciencemadesimple.com/static.html

1. An atom that loses electrons has a _____ charge and an atom that gains electrons has a _____ charge.

Charged atoms are called _____.

2. What is an insulator? Give 4 examples.

3. What is a conductor? Give an example.

4. How can we move electrons from one place to another? What actually causes the electrons to move?

5. Static electricity is _____

6. Explain the attraction and repulsion of charges.

7. Why does a balloon stick to the wall?

8. Why does your hair stand up when you take off your hat?

9. Why do you get a shock when you walk across a carpet?

10. When is static electricity most noticeable and why?

11. State the Principle of Conservation of Charge.

12. The invisible electric force field around charged objects depends on _____, _____, and _____.

13. What is the relationship between the charges and the field strength?

What is the relationship between the field strength and the distance between the charges?

Part 2: www.school-for-champions.com/science/dc.htm

1. What is DC?

What is AC?

2. Name 3 ways to get DC.

3. What is an electrical circuit?

4. What is voltage?

What is current?

What is resistance?

What causes heat and light in a wire?

COPY THE TABLE comparing water in a hose-DC-units

5. Which electricity do we use in our homes?

CLICK ON ALTERNATING CURRENT

1. Explain AC.

2. Who invented the light bulb?

3. Who really invented AC?

4. Who discovered the advantages of AC over DC?

5. How is AC made?

6. What is the main advantage of AC over DC?