


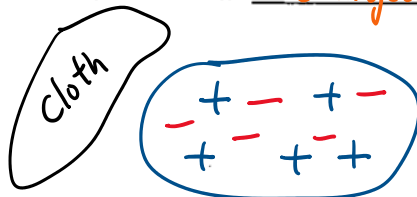
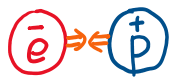
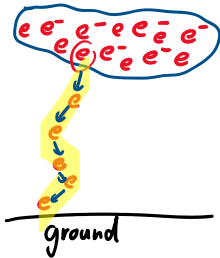
Bill Nye Static Video

September 16, 2022 2:05 PM

Name _____ Date: _____ Class: _____

Bill Nye the Science Guy: Static Electricity

1. What is electricity? flow of electrons
2. What is static electricity? charges that stay at one place.
3. What do lightning bolts do to air? burn up the air
4. Electricity is the flow of electrons
5. What does static mean? stay in one place
6. When you rub your feet on the carpet, what happens? electrons build up and you get shock.
7. Opposite charges attract/repel. (circle the correct answer).
8. In a Van de Graaff generator, electric charges are generated on the base and deposited on metal sphere
9. Like charges attract/repel. (circle the correct answer).
10. How does water get rid of static cling? water absorbs the extra charge.
11. Why does static cling happen? 
12. Static on a radio or TV is caused by static electricity on dust and water vapor in the atmosphere.
13. a) Where do electrons go when they are discharged? ground
b) How do they get there? ground wire
14. What is the function of the third prong on some plugs? ground wire lets extra electrons go to the ground
15. How many lightning bolts hit the Earth every second? 50-100
16. Can lightning go from the ground to a cloud? yes/no
17. When the Greek philosopher polished amber with a cloth, it attracted small objects like dust because he is rubbing electrons off the cloth to the amber so the amber became charged.



18. The Greek word for amber is electron, which is where we get the word electricity from.
19. Tall buildings often have lightning rod on them so that if an electrical storms happen, extra electrons can find their way to ground.
20. The roll of paper moved and the stream of water bent because electrons move from hair to comb making it negatively charged.
21. Where is the safest place to be during an electrical storm? Indoor / In your Car.
22. When lightning strikes, it heats the air to 30 000 °C
23. Thunder happens when hot air hits cool air.
24. Thunder and lightning come from static electricity or jumping electrons.

