

Bill Nye the Science Guy: Static Electricity

1. What do lightning bolts do to air? _____
2. Electricity is the flow of _____
3. What does static mean? _____
4. When you rub your feet on the carpet, what happens? _____

5. Opposite charges attract/repel (circle the correct answer)
6. In a Van de Graaff generator, electric charges are generated on the _____ and deposited on the _____ .
7. Like charges attract/repel (circle the correct answer)
8. How does water get rid of static cling? _____
9. Static on a radio or TV is caused by static electricity on _____
_____ in the atmosphere.
10. a) Where do electrons go when they are discharged? _____
b) How do they get there? _____
11. What is the function of the third prong on some plugs? _____

12. Can lightning go from the ground to a cloud? yes/no (circle the correct answer)
13. How many lightning bolts hit the Earth every second? _____
14. When the Greek philosopher polished amber with a cloth, it attracted _____
_____ because _____

so the amber became _____
15. The Greek word for amber is _____, which is where we get the word _____ from.
16. Tall buildings often have _____ on them so that if an electrical storm happens, _____ find their way to _____.
17. The roll of paper moved and the stream of water bent because _____
move from _____ to _____ making it _____ charged.
18. Where is the safest place to be during an electrical storm? _____
19. When lightning strikes, it heats the air to _____ °C
20. Thunder happens when _____ air hits _____ air.
21. Thunder and lightning come from _____ or _____.