

NOVA: Lightning!

Name _____ Date _____ Period _____

1. Every minute _____ bolts strike the Earth.
2. _____ proved that lightning was electricity, not fire.
3. The Empire State Building is struck around _____ times per year.
4. A lightning bolt is _____ miles long and _____ in diameter.
5. Lightning is _____ times hotter than the Sun.
6. Lightning causes _____ of all power outages on the east coast.
7. _____ is the lightning capital of the world.
8. Instruments on the weather balloons measure the following:
 - a)
 - b)
 - c)
9. There's debate about what causes the layers of opposite charge to form in a cloud:
 - a) rising _____ collide with falling _____ forming charged particles that move into separate areas of the cloud
 - b) violent _____ and _____ separate charged particles that naturally exist in the atmosphere.
10. When a strike is eminent, skin feels _____ and _____ on the body rises.
11. Crouch down on the _____ to minimize contact with the ground.
12. Cars are fairly safe, but not because of the _____.
13. At home, don't touch _____ or anything connected with the outside.
14. _____ are the #1 cause of indoor deaths due to lightning.
15. Lightning strikes every commercial jetliner _____ times per year.
16. Experiments show that lightning is a significant threat to _____ power lines.