**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.

**TURN PAPER OVER**
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.