Bill Nye: Atmosphere – Answer Key

1. The atmosphere is ______THICK ENOUGH FOR US TO BREATH_______!
2. We live in an ___ AN OCEAN OF AIR ____ of air.
3. The atmosphere is _______10________km thick.
4. What would happen if the Earth has no atmosphere, as in no air?
   - WE WOULDN’T BE ABLE TO BREATH
   - IT WOULD BE VERY COLD
5. The atmosphere keeps Earth _____WARM_____.
6. The atmosphere protects Earth from ___COMETS______ and ___METEORS_____.
7. It is mainly from the ___VOLCANIC GASES_____ that our atmosphere was formed.
8. The 5 layers of the atmosphere are:
   - TROPOSPHERE
   - STRATOSPHERE
   - MESOSPHERE
   - THERMOSPHERE
   - EXOSPHERE
9. The lower the atmosphere pressure, the ____HIGHER___ you are on land or sky.
10. At Death Valley in California, the air pressure is __VERY HIGH___, meaning there is more air over your head.
11. Why do your ears always pop on an airplane?
   THE PRESSURE BETWEEN THE INNER AND OUTER PART OF THE EAR EQUALIZES

12. When boiling water at a high altitude, it ___ DOESN’T ___ take as long to boil.
13. How much does the atmosphere weigh in kilograms? 150kg
14. The thermosphere blocks deadly ____GAMMA_____ radiation.
15. The ___TROPOSPHERE____ is responsible for the weather, rain or snow.
16. We live in the ___TROPOSPHERE____, a level of the atmosphere.
17. Why are mountain tops colder than the temperature in the city?
   IN THE MOUNTAINS, THE AIR IS THINNER AND DOESN’T PROVIDE US WITH AS MUCH HEAT

18. When the atmosphere keeps Earth warm, it is called the ___GREENHOUSE___ effect.
19. How thick is the troposphere? 10KM
20. The higher you go in the atmosphere, the _LESS_ air there is available to breathe.