Possible Biggie Physics Questions

(Bolded items are topics covered in the first part of PHY101)

**1. Why is the sky blue?**

**2. Why are sunsets red?**

**3. Why is the sea blue-green?**

**4. How do poloraized sunglasses work?**

**5. How does a 3D movie work?**

**6. What is UV radiation.**

**Can you get sunburned behind glass windows?**

**What is the ozone layer and what does it effect?**

**7. What causes the phases of the moon?**

**8. Why does the road look wet on a hot day? What is a mirage?**

9. What are hydraulics? How are they used in every day life?

10. What are simple machines? (pulleys, lever, inclines....)

**11. What is the periodic table?**

12. How does a suspension bridge work? Bridges, different types

13. How does a combustion engine work? car engines

**14. Does sound travel faster in water or in air? nature of sound waves**

**15. What is a sonic boom?**

**16. What is ultrasound technology? uses of ultrasound**

17. What causes a curve ball?

18. How does lift and flight occur?

19. Why do your ears “pop” on an airplane?

20. How does an air-conditioner work?

21. What are the chinook winds?

22. Why is Europe’s winter significantly warmer than Canada which is on the same line of latitude?

**23. What is far-sightedness and near-sightedness and how are they corrected?**

**24. What is laser surgery? what does it correct**

**25. How do speakers work? tweeters and woofers?**

**26. How does a radio work?**

**27. How does a cell phone work?**

**28. What causes lightning?**

**29. Why do all lights on a Christmas light strand go out when one goes out?**

**30. How does stain glass work? Why do we see different colors?**

**31. How does police radar (speed) detectors work? other uses of radar?**

32. What is a gulf or sea breeze? how are they formed?

33. Is blood blue in veins and only turns red when it hits oxygen?

34. What is the reason for seasons?

**35. What color of light is created by adding green light to red light?**

**36. What is an electromagnet?**

**37. How does a solar cell work?**

**38. What is color-blindness?**

39. How do new 3D televisions work?

40. What is a black hole?