20 Questions You Should Know How to Answer By the End of the Semester

1. Why is the sky blue and the sunsets red?

2. Why is radon the 2nd leading cause of lung cancer?

3. How can you calculate how much energy (and cost) an electrical appliance uses in your home?

4. Why is Venus the hottest planet in our solar system?

5. How is the scientific account and the Biblical account of creation similar?

6. If 2 people parachute out of an airplane with similar chutes, who gets to the ground first and why?

7. If you saw the moon rise in the east about 9 pm, what phase of the moon would it be? If you lived on the ocean, what would be the time of high tide?

8. Why do some soda cans float in water and others sink?

9. How much insulation should be in your home attic, walls, floors?

10. If you see red fireworks, what element is causing that color?

11. What does the sound of a train horn moving away from you have to do with the motion of our galaxy?

12. If I gave you the elements calcium and chlorine, what type of properties would the compound they would make have? How would scientists write the formula for this compound?

13. What is the temperature of the bottom of Lake Michigan right now and why is that important?

14. If you live in Denver why do you have to adjust your cooking times for things in boiled water? How would you adjust them?

15. If you increased your car's speed from 30 to 60 mph, about how much longer would it take you to stop?

16. The most important thing you will learn about in this course that you probably don't know anything about is Faradays' Law of Electromagnetic Induction. What is it?

17. If the price of gasoline increases at 2% a week, in how many weeks will the price double? The math of solving this also has a lot to do with our world energy problem.

18. Why do farmers in Florida spray their trees with water before a heavy frost?

19. How are the colors of the rainbow produced? How does this relate to the length of daylight we have?

20. What causes water to be hard? Is it dangerous?