Electromagnetism Mr. Stewart

Physical Science November, 2012

1. What is electromagnetism?
	1. A moving electric charge produces \_\_\_\_\_\_\_\_\_.
	2. Changing magnetic fields move \_\_\_\_\_\_\_\_\_\_\_.
2. What produces an electric field? What produces a magnetic field?
3. What is an electromagnet?
4. What is a solenoid?
5. What is an induced current?
6. A changing magnetic field produces \_\_\_\_\_\_\_.

A changing electric field produces \_\_\_\_\_\_.

1. What is electromagnetic radiation – and how fast does it travel?
2. What medium transports sound waves?
3. Can there be sound waves in outer space?
4. What medium transports water waves?
5. What medium transports radio waves?
6. What can electromagnetic waves travel through?
7. Name 7 types of electromagnetic radiation (energy).
	1.
	2.
	3.
	4.
	5.
8. What are some uses of electromagnetic radiation?
	1.
	2.
	3.
	4.
	5.
	6.
	7.
9. What is the relationship between frequency, speed and wavelength?
10. What frequency does amateur radio broadcast in?
11. What radiates electromagnetic energy?
12. How do you get time-varying magnetic fields?
13. Radio waves (EM energy) can be polarized if the electric and magnetic fields are \_\_\_\_\_\_.
14. How are radio waves best received?