REAL WORD PROBLEMS NAME;

Electricity from Trash

1. What is the first step in producing electricity from trash?
2. How does burning trash lead to the production of electricity? Outline the steps involved.
3. Burning anything, whether it is trash or a fossil fuel such as coal, produces carbon dioxide and air pollution. Carbon dioxide is a greenhouse gas that contributes to global warming. How do trash-burning power plants reduce their emissions of harmful substances?
4. Despite the use of pollution controls, many people have concerns about burning trash to produce electricity. List the pros and cons of producing electricity from trash.
5. Based on the pros and cons, is it a good idea to produce electricity from trash? What do you think? Explain your decision.

**Let's Play Pinball**

1. Solenoids make use of electromagnetism. What is electromagnetism?
2. Explain how a solenoid works.
3. How does a solenoid convert energy from one form to another?
4. Identify the three types of solenoids. Which type is most common? Which type is used in pinball machines?
5. Explain one way that solenoids are used in pinball machines.