Science: Types of Energy

Roller Coaster Poster

Your job: You need to design (draw) a roller coaster to demonstrate your understanding of energy terms.

Your roller coaster needs to include the following:

1. A name…on a sign at the beginning of your roller coaster (like…Monster Magnet)
2. Neat colouring
3. Label all the following forms of energy
* chemical energy (batteries / solar panels to power your roller coaster)
* electrical energy (anything you plug in…for example, lights for night riding)
* nuclear energy (a nuclear power plant that produces electricity for lights or sound)
* electromagnetic energy (for example, walkie talkies for security guards)
* sound energy (speakers playing your favourite music / a speakers welcoming people to your roller coaster, "Welcome to Monster Magnet…the world's greatest roller coaster")
* gravitational potential energy (stored energy related to the object's height)
* elastic potential energy (stored energy associated with objects being compressed or stretched…could this be how your roller coaster stops?…think of a fighter jet landing on an aircraft carrier)
* thermal energy (rocket boosters)

For example:

Although…your roller coaster will be WAY more artistic!