

Title: **Analyzing Potential Energy**

Date:

Essential Question: How can you teach potential energy with a toy?

How can you model changes in the P.E. of a system?

Questions:**Notes:****Energy in a System**

- Adding or removing energy = transfer of energy
- Energy that stays in the system, but changes forms = energy transformation

Fields and Potential Energy

- Fields are any region where something that doesn't touch still has a force.
- Examples: Magnets = attractive forces and repulsive forces
Gravity = attractive forces only

Play with Potential Energy

- Gravitational P.E. - Dominoes, rollercoasters
- Magnetic P.E. - Used to hold pieces together or to make things move without touching
- Elastic P.E. - Any material that can return to its original state after being stretched or compressed
- Chemical P.E. - Batteries used to power toys

Summary:

