

Exp#2

Energy Forms & Changes Simulation

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Name oscar / sara / yasmeen

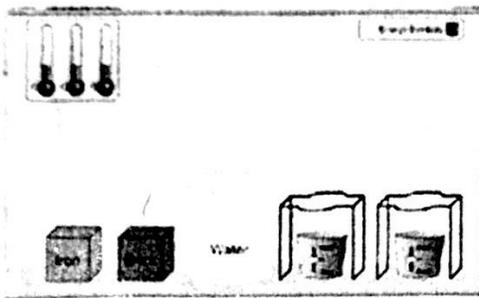
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<http://phet.colorado.edu/en/simulation/energy-forms-and-changes>

In this simulation, you will be able to “see” several different forms of energy and the changes (transfers) that can occur between them. You are also able to work with a system where you can manipulate the energy input, observe the process of electrical energy generation and manipulate the output.

Part 1

Click on the “intro” tab. We will do all of our work here.



- Drag and attach thermometer to the iron block ,brick, and water –attach on the right hand side.

** Heating/cooling

1. Place the iron block on the stand
2. Drag the temperature slider underneath to heat the block, heat the block to its maximum temperature based on the thermometer reading.
3. Drag and Place the iron block into the water
4. **Observe and describe how this affects the temperature of the iron block and water.**

The thermal energy moved from the highest temperature medium iron to the lower temperature water, so the temperature of the water rose and the temperature of the iron decreased until the two mediums were equal in temp.

5. Drag the iron block back to the stand.
6. Drag the temperature slider underneath to cool the block, cool the block to its maximum temperature based on the thermometer reading.
7. Drag and Place the iron block into the water again.
8. **Observe and describe how this affects the temperature of the iron block and water?**

Thermal energy moved from the higher medium, the temperature (water), to the lowest temperature medium (iron) after adding iron to water until the two temperature between iron and water are equal in temp.

