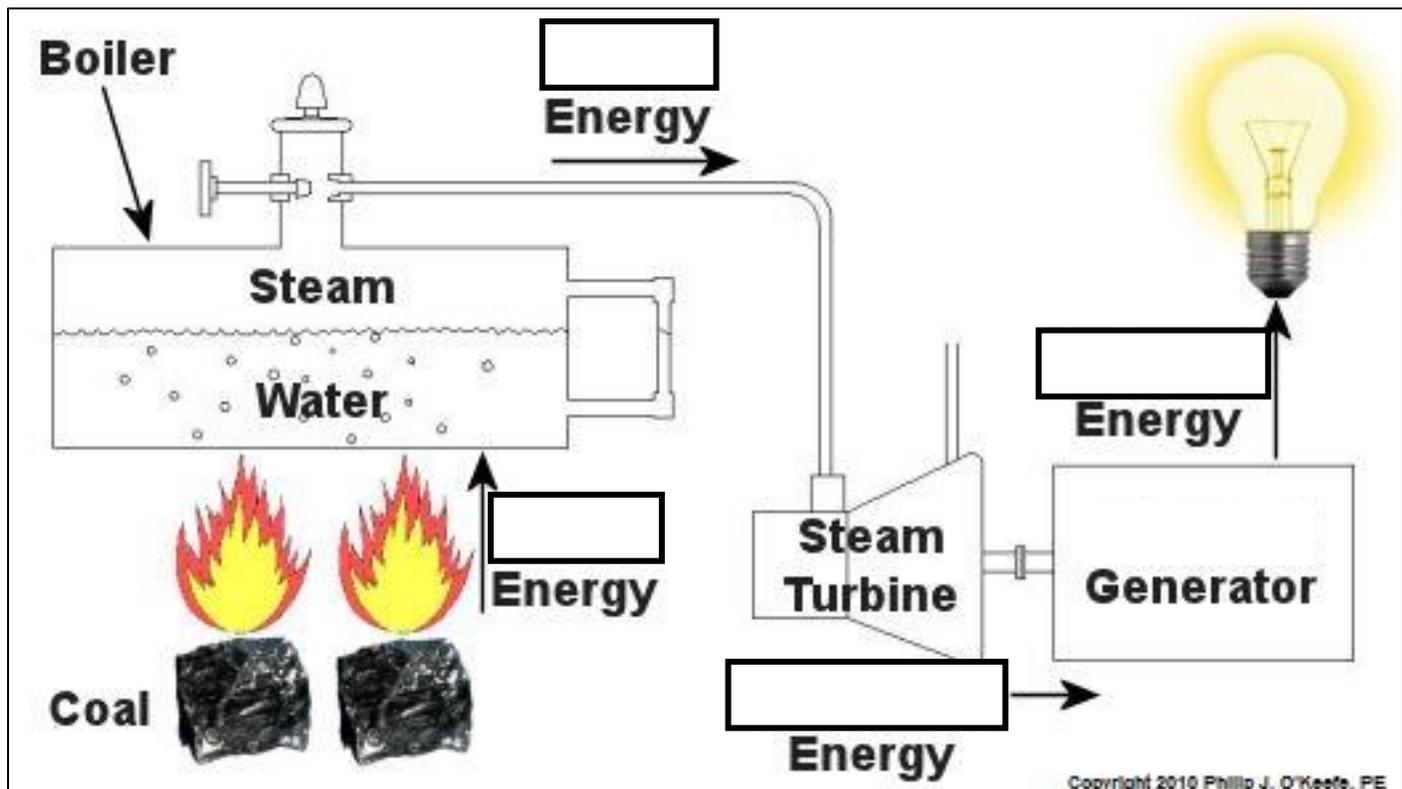


## Candles: Part 1 & 2 Skill Builder

1. Identify the form of energy which occurred while lowering and raising the wick into the wax mixture.
  - a. Chemical potential
  - b. Light
  - c. Sound
  - d. Kinetic
  - e. Nuclear
  
2. Identify the form of energy found within the unburned candle.
  - a. Chemical potential
  - b. Light
  - c. Sound
  - d. Kinetic
  - e. Nuclear
  
3. Identify the energy transformation which occurs while the candle is burning.
  - a. Light to chemical potential
  - b. Chemical potential to heat and light
  - c. Chemical potential to kinetic
  - d. Thermal to electric
  - e. Light to electric
  
4. Identify the energy transformation which occurs in the coils of the hot plate.
  - a. Chemical potential to thermal
  - b. Thermal to kinetic
  - c. Electric to thermal
  - d. Light to heat
  - e. Electric to sound
  
5. According to Candles Pathways notes, what is the ultimate (original) source for the energy stored within a candle?
  - a. Hydroelectric power plant
  - b. Coal fire power plant
  - c. The Sun
  - d. Photosynthesis
  - e. Acoustic energy
  
6. Identify the name of the process when the energy of sunlight is converted into chemical potential energy.
  - a. Metamorphosis
  - b. Photosynthesis
  - c. Condensation
  - d. Evaporation
  - e. Parenthesis



7. In the diagram above, fill in each  with the appropriate form of energy.
8. Which form of energy is stored within a piece of coal? \_\_\_\_\_.
9. Where does coal get its energy?
- Photosynthesis
  - Remains of ancient plants
  - The Sun
  - All of these are true
10. Which of the following represent a common source for chemical potential energy?
- Gasoline
  - Bread
  - Firewood
  - Rocks
  - a, b, & c are true
11. In addition to chemical potential energy, what is another reason for using beeswax in the candle mixture?

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12. Identify 2 advantages and 2 disadvantages of using candles as a light source.

Advantage

Disadvantage

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