



## Virtual Lab Activity 1.1

# Heat Engine

- 1. Observe** Watch how the internal combustion engine works. Consider the internal combustion engine fitted with a piston as shown in the animation. Record and explain the equation that represents the conversion of thermal energy into work. ( $Q_h = W + Q_c$ )

---

---

---

---

---

---

---

---

---

---

- 2. Execute** Consider the concept of converting thermal, or heat, energy into work. Sketch a simple internal combustion engine and explain how it works using the equation.

