Check Your Understanding Summary **Answer Key**

1. **The most basic units used by electrical engineers are:**
   - **I:** current, **R:** resistance, **V:** voltage, **G:** ground

2. **Draw the symbols or units used by electrical engineers.**
   - **I:** mA, A, amp  **R:** Ω, ohms  **V:** V, volts  **G:** 

3. **What are some current applications of tactile feedback systems that use force sensors?**
   - Please list and then describe how each system works.
     - **Automotive seat testing:** Conduct seat comfort and ingress-egress testing.
     - **Bite force measurement of reptiles:** Differentiating the bite force of different species of lizards.
     - **Brake pad pressure distribution:** Measure, view and evaluate dynamic forces acting between brake pads and rotors.
     - **Footwear research and development:** Determine locations of foot pressure and force amounts.

4. **What is the importance of calibrating the tactile feedback systems correctly?**
   - All tactile feedback systems must be calibrated correctly in order to produce meaningful data.

5. **What is the importance of a curve model in any application?**
   - The studying of these models gives us a better understanding of the behavior and relationships among variables. In most cases, models are an effective and efficient method to simulate solutions to real-world problems.