Questions for Students to Consider Before Writing Paper/Lab Report: (Background Information)

1. What is a seed?
2. Is a seed alive? Explain
3. What factors are needed for a seed to germinate?
4. What happens to a seed during germination?
5. Which forms first, shoots or roots first?
6. What is a salt?
7. Define/describe and include in Paper/lab Report:
   - Imbibition
   - Osmosis
   - Saline
   - Salt
   - Ion
   - Hypertonic
   - Hypotonic
   - Isotonic
   - Solute
   - solvent
   - solution
   - root
   - shoot

Questions to Include in the Discussion Section of the Paper/Lab Report

1. What is the role of water in bean germination?
2. What effect does salt have on cells?
3. What effect does salt have on germination, shoot and root development of beans?
4. What was the control in this experiment and why was a control used?
5. Discuss the environmental implications of the data.

To answer some of these questions go to:

pages 75-77, and 638 of the Campbell textbook and the following web sites:

http://www.botanical-online.com/animation4.htm
http://www.saburchill.com/chapters/chap0047.html