How Do You Make a Program Wait? Pre/Post Quiz Answer Key

1. What is an algorithm?
   
   An algorithm is a clear and specific procedure for solving a problem in a finite number of steps.

2. Can you think of a reason why it might be inconvenient to program your robot to always go a precise distance?
   
   If the distance is very far, this could take up a lot of time. Inconsistencies in the robot itself (power, battery charge) can also cause the robot to not always go the exact distance you program it to do.

3. What is a stimulus? Can you think of a stimulus the robot could detect? What sensor would it use to detect the stimulus?
   
   A stimulus is something that is sensed by a robot or animal and causes it to act. For the purposes of the lesson, it is sensed by the robot and this may cause it to act in a different manner.

   Example answer: The robot could detect a wall in front of it with a touch sensor or an ultrasonic sensor.