

**1. Title or Topic of the Lesson and Grade Level**

- a. **Exploring Bragg's Aeroponic Garden; Grades 3-5**

**2. Lesson Essential Question(s):**

- a. What is an aeroponic garden?
- b. How do plants grow in an aeroponic garden?

**3. Standards:**

- a. 5-LS1-1 Support and argument that plants get the materials they need for growth chiefly from air and water

**4. A. Learning Objectives and Assessments:** Write a sentence for each of your desired learning outcomes. These must be written in observable terms and be assessable. These must also correlate to the standards addressed above.

**5. Materials:**

- a. Teacher will need:
  - i. Smartboard or similar technology to present the powerpoint

**6. Pre-lesson assignments and/or prior knowledge:**

- a. Students will know what a garden is
- b. Students should be able to explain the typical growth of a plant

**7. Lesson Beginning:**

- a. Students will begin the lesson by going over how plants grow and what they need to grow.
- b. Teacher will then ask students what an aeroponic garden is. This will help to gauge their prior knowledge

**8. Instructional Plan:**

Teacher will then present the two videos in the powerpoint on aeroponic and hydroponic gardens. These videos will show students what a aeroponic and hydroponic gardens are as well as show students how plants grow in them. Students will review the material seen in the videos by discussing the similarities and differences between aeroponic and hydroponic gardens. After the discussion, the class will visit Bragg's aeroponic garden and observe what is happening in the garden. After returning to the classroom, students will draw their own representation of the aeroponic garden and label the different parts.

**9. Closure:**

Students will end the lesson by holding a final discussion about the aeroponic garden at Bragg. They will review the properties of the garden such as "what holds the plants in place if there is no soil" as well as "when can we harvest."