

Overview and Assessment App

Pre-Lab Activity 1 - Teacher Guide

Grades K-3

Overview

This lesson plan provides an overview (scope and sequence) of the BEE Amazed! e-Lab. This lesson plan has a built in pre- and post- assessment component using a web-based program.

**** NOTE - This lesson plan is separated into multiple sessions. Please plan accordingly. ****

Materials

Computer, tablet, or iPad (1 per student or a few devices the students can rotate)
Videoconferencing equipment (for the live videoconferencing connection)

Getting Ready

- Visit <https://www.clce-labsjr.net/teacher> to register your class for the pre/post assessment web-based program. Follow the instructions on the screen to register each student.
- Prepare each electronic device for the students to take the pre-assessment (have website active, etc).
- After the actual live videoconference with the Challenger Learning Center the students will be completing the post-assessment on the computer, tablet or iPad. Prepare each electronic device for the assessment.
- The post-assessment can be located at <https://www.clce-labsjr.net/student>

Procedure

Session 1

Explain to the students that we will be conducting an e-Lab in the near future. It may help to explain what an e-Lab is and what your expectations are for viewing the e-Lab. For example: An e-Lab is a distance-learning program where a live person (called a Lab Director) is going to connect straight into our classroom (virtual fieldtrip). He/she will be able to see you, hear you, and talk back and forth with you (compare it to a guest speaker in your classroom). Feel free to set the guidelines you wish your students to follow during the actual live connection (i.e. everyone participates, records on their lab journal, etc.). Today we are going to prepare for the e-Lab by building a foundation of vocabulary terms and concepts that we are going to use in the e-Lab.

Begin by having the students complete the pre-assessment for the e-Lab. You may want to explain to the students that we are assessing their knowledge on the concepts **BEFORE** they have actually been taught (to see how much background knowledge they have). Then the students will learn the material (through teacher taught lesson plans and the live videoconference with the Challenger Learning Center) and then be assessed again to see how much they have learned. Students will log into the website using their user name and password (generated after you register your students). Students will complete the web-based program independently (**please do not assist the students on the content material**). The first question of the program

does not count for assessment purposes - feel free to use this question as a tutorial on how to use the program. After all students have completed the pre-assessment program on an electronic device, please complete Session 2 before the live videoconference with the Challenger Learning Center.

Session 2

Complete the lesson plan on capillaries located on our website under Lesson Plan Materials. Please select the appropriate lesson plan based upon your grade level.

Session 3

The next step will be to connect live with a Lab Director at the Challenger Learning Center. Your live videoconference will last approximately 45-60 minutes.

Session 4

Students will complete the post-assessment aspect of this lesson plan. Students will need to log back into the assessment website (<http://clce-labsjr.net/student>). The post-assessment is exactly the same as the pre-assessment. Have students complete the program independently (**please do not assist the students on the content material**).

Explanation

This lesson plan spells out the scope and sequence of the events needed to take place for the e-Lab. All 4 sessions need to be completed to achieve the most accurate post-assessment results.

Assessment

Pre-assessments and post-assessments are a crucial aspect to learning. Determining what the students knew before the activity began compared to what the students know after the activity is completed can be very helpful in determining the next steps in students' learning process. The pre-assessment and the post-assessment is the exact same program to achieve the most accurate data possible.