

Dabble Lab Lesson Plan

Series: Junior Makers 4D

Titles: *Electronics Projects for Beginners: 4D An Augmented Reading Experience*, by Tammy Enz

GENERAL INFORMATION: Grade Level(s): 2-4 Lesson Plan Title: Friendly Greetings
Curriculum: Science and English Language Arts

Overview of Lesson: In this lesson, students will learn how to apply what they've learned about circuits and book quotations.

BENCHMARKS OR LEARNING OBJECTIVES:

AASL Skills Indicator 1.1.2: Use prior background knowledge as context for new learning.

Grade 2 Benchmark: Share what is known about a topic, problem, or question

AASL Skills Indicator 1.1.9: Collaborate with others to broaden and deepen understanding.

Grade 2 Benchmark: Share knowledge and ideas with others by discussion and listening.

AASL Skills Indicator 2.1.6: Use the writing process, media and visual literacy, and technology skills to create products that express new understandings.

Grade 2 Benchmark: Create a product with a beginning, middle, and end.

AASL Skills Indicator 4.1.8: Use creative and artistic formats to express personal learning.

Grade 2 Benchmark: Express feelings about a story through pictures and words.

ASSESSMENTS METHODS:

Students will work individually to create an original greeting card with a book quotation, circuits, and letter writing.

This lesson is a wonderful opportunity to collaborate or co-teach with another classroom teacher.

RESOURCES AND OTHER LEARNING SUPPORT MATERIALS:

- Create your own model from following the directions on pp. 10–13 of the Light-Up Greeting Card activity in *Electronics Projects for Beginners: 4D An Augmented Reading Experience*, by Tammy Enz.
- An example or examples of greeting cards with quotes on the outside and blank on the inside. Another option is to bring in examples of various types of greeting cards. (Ex: Thinking of You, Best Friends, Happy Birthday, Just Because, Thank You, and so forth.)
- Favorite book or book being studied in ELA classes. (Students should bring this to class or have chosen the book already.)
- Letter format examples, a book from the Dear Mrs. LaRue series, by Mark Teague, or the book *Click, Clack, Moo, Cows That Type*, by Doreen Cronin.
- All materials included in the activity (p.10)
 - 5-by-12-inch (12.7-by-30.5-cm) piece of thick paper or poster board
 - sharp scissors
 - 2 LEDs
 - electrical tape
 - CR2016 or CR2025 watch battery
 - small piece of a cotton ball
 - markers

INSTRUCTION AND ACTIVITIES:

1. Introduce and/or read out loud pp. 10–13 of the Light-Up Greeting Card activity.
2. Discuss or review what a book quotation is and how it is used in greeting cards. Show students your examples of greeting cards. Express that the card will have a book quotation on the outside with their drawing. They should leave it blank on the inside so they can include their personal letter or note. If you wish to teach students the differences between various greeting cards, this is the time to discuss the different types of themes. (Ex: Thinking of You, Best Friends, Happy Birthday, Just Because, Thank You, and so forth.)
3. Ask students to choose a book quotation, brainstorm what they will draw on the outside of their greeting card, and choose which parts will light up (no more than two). Pass out supplies.
4. Give students time to draw and write on their greeting card.
5. Guide students through the activity's steps on pp.10–13. What is a circuit? How does it work?
6. Ask students to think of someone special they'd like to give the greeting card to, OR ask students to write a note to their favorite author. Instruct students to write a special message to that person on the inside of the card with the proper letter format.
7. If necessary, review letter format. Read aloud a letter or picture book for reference. Examples included in the resources section.

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