

Cross Curricular Lesson Plan for Bearded Dragon Utah State Standards (Grade 5)

Subjects	Standards Addressed
English Language Arts	<p><b>RI 5.3</b> Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.</p> <p><b>RI 5.4</b> Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a <i>grade 5 topic or subject area</i>.</p> <p><b>RI 5.7</b> Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.</p> <p><b>RI 5.9</b> Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.</p> <p><b>Writing Standard 2</b> Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</p> <p><b>Writing Standard 7</b> Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.</p> <p><b>Writing Standard 9</b> Draw evidence from literary or informational texts to support analysis, reflection, and research.</p>
Math	<p><b>Standard 5.MD.1</b> Convert among different-sized standard measurement units within a given measurement system (<i>for example, convert 5 cm to 0.05 m</i>); use these conversions in solving multi-step, real-world problems.</p>

	<p><b>Standard 5.MD.3</b> Recognize volume as an attribute of solid figures and understand concepts of volume measurement.</p>
Science	<p><b>Standard 5</b> Students will understand that traits are passed from the parent organisms to their offspring, and that sometimes the offspring may possess variations of these traits that may help or hinder survival in a given environment.</p>

## **Lesson Plan Template**

**Title of Project:** Cross Curricular Bearded Dragon Project

**Materials Needed:**

- Bearded Dragon
- Cage/tank/terrarium
- Rulers
- Chromebooks (For Research)
- Grade Level Articles ~ Differentiated articles about Bearded Dragons
  - Brochures
  - Articles
  - Websites (appropriate)

**Lesson:**

Students will be completing a cross curricular project in order to understand the essentials of having a class pet, and basic knowledge for the needs of their animals. This project can be adapted to all types of pets for all grades and classroom types.

Students will research information regarding the environment and needs of their classroom Bearded dragon. The students will create a graphic organizer and a 5 paragraph essay regarding the “living quarters” for their pet (environment, temp, humidity, etc.), food and nutritional information, basic information about Bearded Dragons (species, male/female, etc.)

Students will then determine traits of the Bearded Dragon from their research and develop the appropriate living quarters for their classroom pet. Students will need to determine maximum length of an adult dragon and volume of tanks based on measurements and conversions. Students will determine the appropriate sized tank and then will utilize previously researched information to determine what to place inside terrarium. Math concepts for volume will need to be used for the items placed inside (carpet, sand, housing, etc.) and surface area equations for background of tank.

Students will utilize their researched information to determine what types of materials and traits the Bearded Dragon has in order to create a terrarium that mimics their natural environment. Traits of the dragon can be researched or observed and then discussed to determine what type of cage the students want to create for their classroom.

**Modifications/Differentiation:**

Articles and research materials can be adjusted for students reading level as well as their first language. Pictures can be utilized for Special Education students and English Language Learners.

**Adjustments for Younger Grades:**

Younger grades do not have to research, but can discuss attributes of the desert and things they want in their tank. Early education students can observe pictures and the bearded dragon and draw pictures instead of creating essays.

**Diversity Studies:**

Students from different cultures can compare and contrast Bearded Dragons to animals found from their country of origin and discuss with other classmates their knowledge of other animals that may not be found in Utah.