

Lesson Plan Title

Acquired and Inherited Traits Portraits

Grade Level

8th

Subject Area

Science

MSCCRS

L.8.2B.1-Construct an argument based on evidence for how environmental and genetic factors influence the growth of organisms.

L.8.2B.2-Use various scientific resources to research and support the historical findings of Gregor Mendel to explain the basic principles of heredity.

L.8.2B.3-Use mathematical and computational thinking to analyze data and make predictions about the outcome of specific genetic crosses involving simple dominant/recessive traits.

L.8.2B.4- Debate the ethics of artificial selection and the societal impacts of humans changing the inheritance of desired traits in organisms.

Art Form

Visual Arts

MSCCR Creative Arts Standards

VA: Cr2.1.8a- Demonstrate willingness to experiment, innovate, and take risks to pursue ideas, forms, and meanings that emerge in the process of art-making or designing.

VA: CR2.3.8a- Select, organize, and design images and words to make visually clear and compelling presentations.

VA: Re.8.1.8a- Interpret art by analyzing how the interaction of subject matter, characteristics of form and structure, use of media, art-making approaches, and relevant contextual information contributes to understanding messages or ideas and mood conveyed.

VA: Pr6.1.8a- Analyze why and how an exhibition or collection may influence ideas, beliefs, and experiences.

Duration

2 hours- two 1-hour sessions

Materials

Cut Paper PowerPoint- https://drive.google.com/file/d/1BAXzH21_wl1qERaR5pQR0S-nb8jN_o9A/view?usp=sharing

Construction paper- various colors (3-5 sheets per child)

Glue

Scissors

Objectives

TLs analyze acquired and inherited traits of their body.

TLs create a portrait that demonstrates their acquired and inherited traits using knowledge learned from the Cut Paper technique.

Vocabulary

Acquired

Inherited

Dominant

Recessive

Cut Paper

Shape

Color

Size

Space

Lesson Description

Day one: Arts Day

1. TTW explain to the students that they will be completing a Cut paper portrait tomorrow that displays their acquired and inherited traits.
2. TTW explain that they will be telling a story without using words using a Cut Paper technique.
3. TTW explain this technique using a PowerPoint. This PowerPoint will discuss how to tell a story without using words. The four techniques you use are space, color, shape and size. The PowerPoint discusses all of these elements.
4. TLs will complete the interactive PowerPoint with the teacher.

Day two: Cut Paper Day

1. TTW review acquired and inherited traits with the TLs using an anchor chart.
2. TTW have the learners list their acquired and inherited traits on a sheet of paper.
3. TTW explain that they will be creating self-portraits using the cut paper technique. They must demonstrate their traits using different formats.
4. TTW explain that each portrait is not supposed to be perfect because the purpose of Cut paper is to make imperfect photos.
5. TLW complete the self-portraits and then present them to the class and explain why they used certain techniques of cut paper to demonstrate their traits.

Recommended Resources

Cut Paper PowerPoint-

Extended Learning Activities

N/A

Sources

N/A

Tips

It is best to have already taught the learners the difference in acquired and inherited traits.

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