

MON. JAN. 13TH

TUE. JAN. 14TH

WED. JAN. 15TH

THU. JAN. 16TH

FRI. JAN. 17TH

8th Grade Science
MAP Testing Day I

8th Grade Science
MAP Testing Day II

8th Grade Science
**Inheritance and
Variation of Traits**

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Variation of Traits**

Standards

MS-LS3-1 Develop and use a model to describe why structural changes to genes (mutations) located on chromosomes may affect proteins and may result in harmful, beneficial, or neutral effects to the structure and function of the organism. Next Generation Science Standards Science

MS-LS4-5 Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits in organisms. Next Generation Science Standards Science

Objective

Students will demonstrate and understand how mutations in genes can have an impact on animals survival rates by testing different genes and determine if their selected gene is beneficial, harmful, or neutral to the survival of their species.

Critical Questions

1. How do changes in genes can affect proteins?
2. How do changes in proteins result in different effects on the organism.

Bellringer

Show video of answer to the mystery of the 6 toe cat

Engage

1. Show PowerPoint to introduce the activity . The PowerPoint will review essential concepts learned in The Solve and provide context for the students' upcoming Make challenge
2. Challenge #1: Locomotion

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Bellringer

Watch video "Beneficial Mutations Do Happen"
<https://www.youtube.com/watch?v=Uu7Db5On00U>

Engage

1. Challenge #2: Eyesight – Color Recognition
2. Challenge #3 – Finger Dexterity

Assessment

Standards

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Bellringer

Quiz

Engage

1. Select one student per group to present their Ultimate Alien drawings to the class based on their teamdata collected through each challenge activity.
2. Turn in science fair experiment results

Assessment

Notes

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What mutation was helpful in this task? What mutation was harmful in this task? What mutation was neutral in this task?

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