

Week #24 - 7th Grade Science

2/24/20 - 2/28/20

Things to look forward to...

- The mating game!
- Learn what natural selection is
- Play the blue boingo game

Goals and Objectives:

Students will...

1. Explain, based on evidence, how characteristic animal behaviors as well as specialized plant structures increase the probability of successful reproduction of animals and plants respectively. (LS1-4)
2. Develop and use a model to describe how asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation. Compare and contrast advantages and disadvantages of asexual and sexual reproduction. (LS3-2)
3. Develop a model to show how changes to an organism's genes (mutation) can lead to beneficial, negative, or neutral changes to their phenotype. **(LS3-1)**
4. Identify how these mutations can ultimately lead to organisms with adaptations more suited to an environmental change (i.e climate, resources, reproduction) **(LS4-4 and LS4-5)**

Important Documents (this is updated throughout the week):

→ **THE MATING GAME!**

- ◆ [Background information](#) and questions
- ◆ [On to the game!](#)

→ **Biodiversity of Life: Natural Selection**

- ◆ **Notes:** [What is Natural Selection?](#)
 - [Student Note sheet](#)
- ◆ **Online activity:** Evolution of the Blue Boingo
 - [Student Activity Sheet](#)
 - [Website for activity](#)
 - [Focus Questions for Activity](#)
 - [Graph Template](#)

→ **Exit Ticket:** Natural Selection

→ **Invertebrate Insanity In May**

- ◆ [Bracket](#) template
- ◆ [Brackets for 2019](#) (opens once all research and videos are completed)
- ◆ [Organisms](#) in III 2019
- ◆ [Research sheet](#)
- ◆ [Competitor's Card Template](#) and [Rubric](#)
- ◆ [Competitor's Promo Clip](#) (includes script) and [Rubric](#)
- ◆ [Rules of the game](#) and [game cards](#)
- ◆ [Stenography Sheet](#)

<https://www.biologicaldiversity.org/species/invertebrates/>

Order of Events for III 2019

1. Research completed on Friday 4/26, Monday 4/29, and Tuesday 4/30
2. Profile Card completed and sixty second video recorded and edited between Tuesday 4/30 and Monday 5/6
3. Profile card release and bracket release on Wednesday 5/8
4. Invertebrate Insanity Promo Series Video release Thursday 5/9
5. Wild Card battles on Thursday 5/16
6. Round One - Invertebrates of the Sea Division **Mollusca and Cnidaria** on 5/17
7. Round One - Invertebrates of the Sea Division **Crustacea** on 5/17
8. Round One - Invertebrates of the Land Division **Hexapoda and Myriapoda** on 5/17
9. Round One - Invertebrates of the Land Division **Arachnida** on 5/17
10. Round Two - Invertebrates of the Sea on 5/20
11. Round Two - Invertebrates of the Land on 5/20
12. Round Three - Invertebrates of the Sea on 5/23
13. Round Three - Invertebrates of the Land on 5/23
14. Round Four (Championship) - Invertebrates of the Sea on 5/24
15. Round Four (Championship) - Invertebrates of the Land on 5/24
16. Crowning of Ultimate Invertebrate of 2019 on 5/28