

A vibrant, cartoon-style illustration of a tropical beach scene. In the foreground, there is a sandy beach with a wooden lounge chair featuring a red and white striped cushion. To the left, two palm trees with green fronds and brown trunks stand on a small patch of green grass. To the right, another palm tree stands next to a small cluster of pink flowers. The background shows a calm, light blue ocean meeting a bright blue sky with a large, glowing yellow sun and two fluffy white clouds. The text "Summer Packet" is written in a large, bold, black font across the upper middle of the image, and "Grade 6" is written in a similar font below it.

Summer Packet

Grade 6

Social Studies Research Project

This summer you will spend some time researching a famous historical figure that we will learn about this upcoming year. Using the library, internet, podcasts, documentaries, or other s information, complete this brochure of the famous historical figure. Be prepared to submit this to your social studies teacher in the fall. Choose a figure from the list below:

1. Cleopatra
2. King Tut
3. Julius Caesar
4. Marc Antony
5. Aristotle
6. Octavian
7. Mansa Musa
8. Joan of Arc
9. King Suliman the Magnificent
10. Elizabeth Smith Friedman
11. Winston Churchill
12. Buddha
13. King Ashoka
14. Kublai Khan
15. Plato
16. Maya Angelou

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Name: _____

Date: _____

Period: _____

Math Practice

Rational Numbers

6.NS.5 - Situational Constructed Response

Negative Numbers

You have a credit account at your bank, which means that you can borrow money from the bank. You can also store the money you already have in your account. When you deposit money in the bank, you add a **positive** value to your account. When you borrow money from the bank, you add a **negative** value to your account.

1. What operation would represent depositing \$100 into your bank account? Include the operation and amount.
2. What operation would represent borrowing \$100 from the bank? Include the operation and amount.
3. If you deposited \$100 into your bank account and then borrowed \$100 from the bank, how much would the value of your account change? How do you know?
4. If your account value at the bank was \$0, does that mean you have money in the bank, you owe the bank money or neither? How do you know?
5. You are comparing bank accounts with your friend. He has -\$47 in the bank. You have \$23 in the bank. Who has a greater amount of money in the bank? How do you know?

Name: _____

Date: _____

Period: _____

Math Practice

Algebra

6.EE.2A - Situational Constructed Response

Write Expressions with Variables

A restaurant owner is at a grocery store buying ingredients for the week. For each of the situations below, write an expression with a blank (____) in the first column and then replace the blank with an appropriate letter (or variable) in the second column.

Situation	Expression with Blank(s)	Expression with Variable(s)
Multiply 5 by the number of tomatoes		
Subtract 8 from the price of steak		
Add 3 to the price of garlic		
Divide the total bill by 4		
3 times the number of potatoes plus 4 times the number of onions		
12 divided by the price of green onions plus 15 divided by the price of apples		

Name: _____

Date: _____

Period: _____

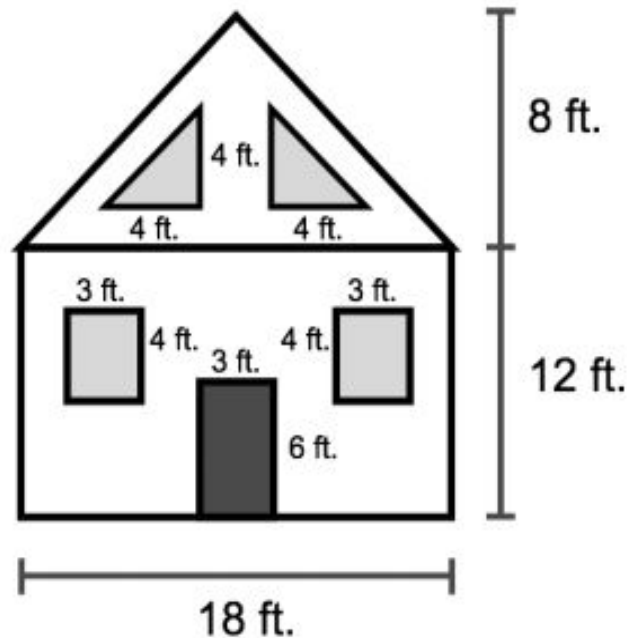
Math Practice

Geometry

6.G.1 - Situational Constructed Response Polygon Areas

A home construction company is designing a new house. The initial blueprint for the front of the house, with real-world dimensions, is shown below. The company is trying to calculate how much siding material will be needed for the front side of the house, in square feet. Remember, siding will not be needed to cover any of the windows (gray) or the front door (dark gray).

Hint: Use your knowledge of triangles and rectangles to find the areas of the various shapes first!



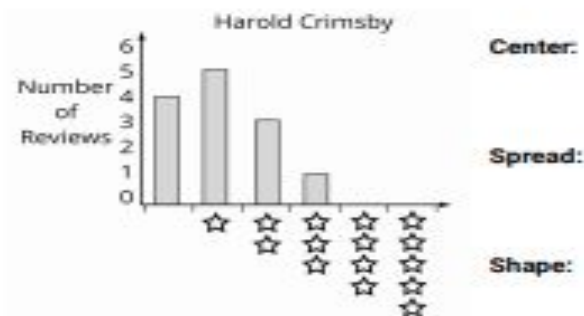
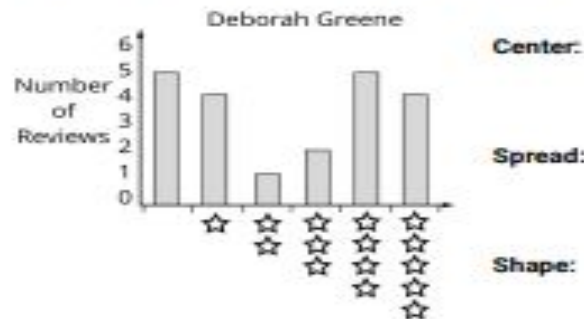
Math Practice

Data & Statistics

6.SP.2 - Situational Constructed Response

Data Distribution and Shape

You are the editor of a newspaper and you need to hire a new film critic. Their job will be to watch new movies and assign them a rating between 1 Star and 5 Stars. You have two critics to choose from. Here are graphs that show the ratings they have given to movies in the past. For each critic, describe the center, spread, and shape of the review distribution.



Which critic would you hire, and why?

ELA- Adaptive Structures and Behaviors

Point of View/ Non Fiction



Have you ever stood outside on a winter day? At first, your body may have felt cold. Then, you may have begun to move and feel warmer. The temperature didn't change, but you feel like it did. This is an example of adaptation, the ability of a human, animal, or plant to adjust to its surroundings. Adaptation helps living things stay alive.



Adaptation and Natural Selection



Charles Darwin was the father of evolution. In the nineteenth century, he explained how species developed over millions of years. He also described how species adapted to their environments through natural selection, or "survival of the fittest."



According to Darwin, groups of plants or animals are varied. Even within the same species, each organism is different. Because food sources are limited in most environments, only the strongest organisms will survive long enough to reproduce! In other words, the traits that allow animals to function best in their environments will be passed on to the next generation. Other "less adapted" traits will die out.

Writing

Skill: Informative/Explanatory

- Based on the information in the text, describe an adaptive strategy used by humans. What does the behavior look like, and how does it help humans adapt to their environment?

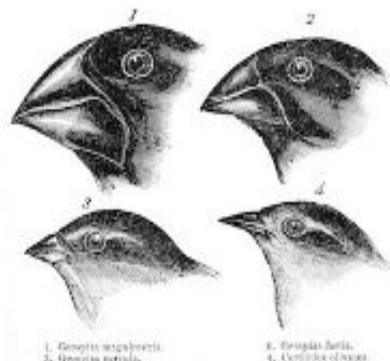
Vocab

- ability
- species
- adapted
- bacteria
- moisture
- pollen
- reproductive
- predatory
- strategy

ELA



Natural selection means that species become more adapted to their environments over time. It is nature's way of giving living creatures defenses against a harsh world.



Darwin's drawings of Galapagos finches, which adapted differently depending on their environment



Reproductive Plant Adaptation



Plants are impacted by natural selection and have developed their own protective structures. For example, in a tropical rainforest, everything is wet, which leaves plants vulnerable to fungus and bacteria. To adapt, the leaves of some tropical rainforest plants have developed a "drip tip." The drip tip lets water roll off easily to prevent moisture from accumulating.



Many plants have bright flowers. Did you know that there is a scientific reason for this? Plants have adapted to grow these flowers to attract bees that will pollinate the flowers. Bees will carry pollen from flower to flower so they can reproduce.

Reading

Skills:

- CC.1.2.C: Text Analysis: Connections
- CC.1.2.E: Text Structure
- CC.1.2.D: Point of View

CC.1.2.C: Text Analysis: Connections



According to the text, why do plants have bright, colorful flowers?



They help plants protect themselves from predators.



They make plants sturdier during rainstorms.



They look beautiful but have no adaptive purpose.



✓ They attract bees, which help the plant reproduce.



Bee pollinating a flower

- These are examples of reproductive adaptations. The bee does not know it is helping the plant. It is just programmed to do these behaviors!

Animal Behavior

- Each year on February 2 people gather in Pennsylvania. They want to see whether the groundhog has seen his shadow. If he sees his shadow, legend has it that he will have 6 more weeks of winter **hibernation**. This story shows a type of adaptive behavior: seeking shelter during cold months. During hibernation, an animal's heart rate and temperature drop as it falls into a deep sleep.

The animal's whole body slows down so that it does not expend too much energy and become exhausted. These adaptations protect the animal and allow it to adapt to the changing seasons.

CC.1.2.C: Text Analysis: Connections

- How are hibernation and nest-building similar?

- ✓ Each behavior is an example of an adaptive behavior.
- The same animal species hibernate and build nests.
- Neither strategy is beneficial for survival.
- Both behaviors help animals avoid predators.



Bird Behavior



Birds build nests to protect their young from dangerous **predators**, like snakes and squirrels. Birds select high places to build their nests, like the treetops. Getting to the nest will be difficult for most predators. However, there are some predatory birds, like blue-jays, that might eat the unhatched eggs. There is no location high enough to stop them!



A bird's nest is one example of a behavioral adaptation that helps birds survive.



The birds will do their best to build their nests in a safe location. But there is no guarantee that predators will stay away. Not all animals survive the winter, even in hibernation. It is a good strategy but not a perfect plan. After all, nature can be unpredictable!

CC.1.2.E: Text Structure



How does the author structure the text?

✓ The author explains the theory of evolution, and then provides examples of how organisms adapt to their environment.



The author contrasts plant adaptations with animal adaptations.

The author saves the most important organisms for last.

The author presents different theories for why animals have certain adaptations.

[Report issue](#)

CC.1.2.D: Point of View



Why does the author include the last sentence?



To entertain the reader with a joke



✓ To remind readers that there are no guarantees in nature



To warn readers to be careful in nature

To teach readers about specific strategies to protect yourself in nature



Report issue