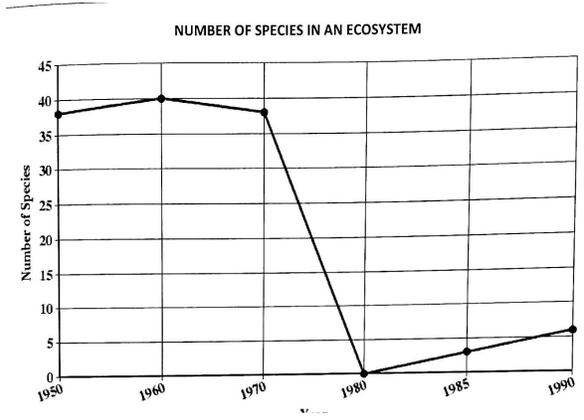


6th Grade Science
AMI Days 6-10

AMI Day 6



1. In what year were approximately three different species counted in this particular ecosystem?
2. If you read a news article that stated a volcano erupted in this area in the past, based on this graph, which year do you think the eruption most likely happened?
3. What was the highest number of species recorded in this ecosystem?
4. About how many species were counted living in this ecosystem in 1990?
5. Predict: Do you think the number of species most likely increased or decreased by the year 2000? Why?

AMI Day 7

Slimotosis

SpongeBob notices that his pal Gary is suffering from slimotosis, which occurs when the shell develops a nasty slime and gives off a horrible odor. His friend Patrick tells him that rubbing seaweed on the shell is the perfect cure, while Sandy says that drinking Dr. Kelp will be a better cure. SpongeBob decides to test this cure by rubbing Gary with seaweed for 1 week and having him drink Dr. Kelp.

After a week of treatment, the slime is gone and Gary's shell smells better.

1. What was the initial observation?
2. What is the independent variable?
3. What is the dependent variable?
4. What should Sponge Bob's conclusion be?

AMI Day 8

Miami-Dade schools and the University of Miami began tracking concussions in high school athletes from June 1, 2012 to Dec. 31, 2015. A concussion is a type of brain injury. It happens when a hit to the head or body causes your head and brain to move rapidly back and forth.

Sport	Male Students with Concussion	Female Students with Concussion
Baseball	10	0
Basketball	13	28
Cheerleading	0	11
Soccer	27	41

Volleyball	4	11
Softball	4	11

1. "What do you see?" - What are three things you notice in the data?
2. "What does it mean?" – Tell what each of your notices mean.
3. Write a caption for this data that includes a topic sentence and connections between all of your "see" and "means" in one small paragraph.
4. Choose one of the sports and draw a model to explain how inertia could be used to explain how the athlete received the concussion.
5. Pick one of the sports and design a solution that could be implemented to minimize the impact of the brain and increase safety for athletes.

AMI Day 9

Look around your home, do you want to make something better? Is there something that needs improvement? Is there a problem that needs to be solved? Design an improvement or solution to the problem. Explain your problem and design your solution to present in any format (model, prototype, written explanation, etc.) you wish. Then, answer the following questions.

1. Was your problem/improvement something that was felt by others in your home or was it just personal?
2. What limitations did you encounter as you began to design your improvement?
3. Did you have to call on others to help you or give you feedback as you worked through your solution? Why? Who did you call on?

AMI Day 10

Since all of your family is home, there is much debate over bathroom time. Use the data provided to answer the questions. On average, a typical shower uses 2.5 gallons of water in 1 minute and on average, a typical bathtub can hold 33 gallons.

1. Use the data above to create a data table for how much water the shower uses for up to 10 minutes (0 minutes up to 10 minutes).
2. Use the data table to create a line graph. The title should be Time in Shower/Amount of water used. Make sure your graph represents the time in the shower and the amount of water used.
3. Your brother argues that your shower uses more water than his bath. You shower for 14 minutes. Write a claim, evidence, and reasoning statement to prove your statement.

Reminder:

Claim- State your position

Evidence- According to the data (use specific numbers from the table that support your claim)

Reasoning- Restate your claim and evidence in different words.