Fifth Grade Distance Learning Plan

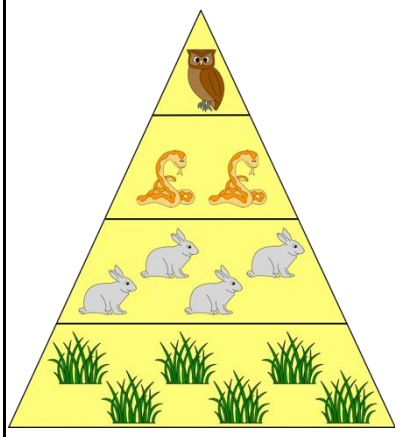
Week of May 11 - 15, 2020

Science Activities
(Suggested: 25 minutes of off-line activities)

TEKS 5.9B

A trophic level is the position of an organism in a food chain. It is another way of describing what an organism eats and what eats it. We use this term to describe energy transfer from one organism to the next in a food chain.

There is a first, second, third and fourth tropic level in a food chain. The first trophic level included the producers. The second trophic level includes the primary consumers. The third trophic level includes the secondary consumers. Each trophic level of a food chain contains ten percent of the energy in the trophic level before it. The second trophic level of the food chain contains ten percent of the energy of the first trophic level. The third trophic level contains ten percent of the energy of the second tropic level, and so on.



When a consumer eats an organism for food, only ten percent of the food eaten is used for growth and is available as food for the next consumer. To compensate for the decrease in energy availability, a higher-level consumer must eat more. A tertiary consumer must eat ten times more than a secondary consumer or 100 times more than a primary consumer. It must eat more to capture the same amount of energy as the primary and secondary consumer. At some point, there is not enough energy to transfer from one level to the next and so food chains are limited in length.

The decrease in available energy can be illustrated in an energy pyramid. An energy pyramid shows how each trophic level contains only ten percent of the energy in the previous level. The size of a trophic level represents the amount of energy available in those organisms. The base of the pyramid represents the bottom of the food chain and contains the most energy. The top of the pyramid represents the top consumer and contains the least energy. An energy pyramid also describes the population size of organisms in each trophic level. Because energy is lost moving up a food chain, higher trophic levels support fewer individuals. The largest population with the greatest amount of energy is at the base of the pyramid. The smallest population with the least amount of energy is at the top of the pyramid.

Monday

1. What is a trophic level?

Tuesday

2. What is the relationship between the first, second and third trophic level?

Wednesday

3. How much more food must a tertiary consumer eat compared to a secondary and primary consumer?

Thursday

4. What does the size of the energy pyramid represent?

Fifth Grade Distance Learning Plan

Week of May 11 - 15, 2020

Math Activities
(Suggested: 45 minutes of off-line activities)

If you have access to a computer or tablet, please login into LearningFarm.com to complete all of your assignments.

TEKS: 5.4 E & F

Monday-Thursday

Solve each expression using the correct order of operations.

(6 + 4) × 9

3 × 4 + 2

5 × (6 + 2)

2 × (3 + 8)

2 × 3 + 8

5 × (10 + 3)

(4 + 3) × 7

5 + 7 × 4

10 + 6 × 4

10 × 5 + 7

Fifth Grade Distance Learning Plan

Week of May 11- May15, 2020

Science Enrichment
(Suggested: 90 minutes of off-line activities)

Coach Nelson

Education Galaxy
https://educationgalaxy.com/

Monday - Thursday

Education Galaxy: Assignment of Climate and Weather

Writing: Today you will start a daily opinion journal. Write about the things they can do to make their neighborhood better. Think about the things that would make your neighborhood better.

Write about the reason these things would help your neighborhood.

- Present arguments to support your point
- Use transitional words and logical order
- Organize your writing
- Develop your ideas in detail

Use correct spelling, capitalization, punctuation, and grammar.

Friday

All assignments due 5/15/2020