

## Pyramid Directions

1. Shade the first (bottom) level of each pyramid green.
2. Shade the second level of each pyramid yellow.
3. Shade the third level of each pyramid blue.
4. Shade the fourth (top) level of each pyramid red.
5. Label each level of the first pyramid side with the following terms as you move up the pyramid: producer, primary consumer, secondary consumer, tertiary consumer.
6. Label each level of the second pyramid side with the following terms as you move up the pyramid: plants, herbivores, carnivores, top carnivores.
7. Label each level of the third pyramid side with the following terms as you move up the pyramid: autotroph, 1<sup>st</sup> order heterotroph, 2<sup>nd</sup> order heterotroph, 3<sup>rd</sup> order heterotroph.
8. Draw a picture of what might belong on the fourth pyramid side with the as you move up the pyramid.
9. Fold your pyramid on the lines radiating from the center and tape it together
10. Answer the following questions in your spiral about your pyramid:
  - a. What are 3 terms used to describe organisms such as trees?
  - b. What are 3 terms used to describe organisms such as cows?
  - c. What are 3 terms used to describe organisms such as humans?
  - d. What are 3 terms used to describe organisms such as lions?
  - e. Do organisms always stay in the same level? Explain you answer.
  - f. What do organisms in each trophic level eat?
  - g. What is the rule of 10's?
  - h. Why are there more herbivores than carnivores?
  - i. The second law of thermodynamics states that no energy transfer is 100% efficient and all energy is eventually degraded to a less useful form. How does this relate to energy pyramids?

