



Food Chains and Biomagnification - Student Worksheet

Sea Lion Feeding Frenzy

Directions: Research one ocean food chain that includes a producer, a primary consumer, a secondary (and tertiary, if applicable) consumer, and an apex (or top) predator. Identify the organisms in this food chain, then draw your food chain using arrows to represent the flow of energy. Respond to the questions on the second page and represent the concept of biomagnification in your food chain.

1. Ocean food chain organisms:

- a. **Producer:** _____
- b. **Primary Consumer:** _____
- c. **Secondary Consumer:** _____
- d. **Tertiary consumer (if applicable):** _____
- e. **Apex (Top) Predator:** _____

2. Draw your food chain below:

3. What is biomagnification, and how does it function in this ecosystem?

4. Add toxins to your food chain to visually represent biomagnification in this ecosystem.

5. How have you represented this concept visually in your food chain? In which organism is the concentration of toxins the greatest?
