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| **Open the TI-Nspire document *Aquatic\_Food\_Web.tns***  All living things need to obtain energy. In an **ecosystem**, all of the organisms depend on each other. All organisms have a role. The **producers** transfer energy into food for the **primary consumers.** The primary consumers then provide food for the **secondary consumers** then **tertiary consumers**. In this activity, you will determine which organism fits each role and identify their ecological relationships. | | |  |
| **Move to page 1.2.** | | |
| 1. After reading the instructions on page 1.2, close the directions box by selecting .  2. Move the organisms on the left by dragging and dropping them on the correct label. If the organism correctly matches its ecosystem label the border of the label box will turn green.  3. Once the organisms are in the correct position, click on two different organisms to show their ecological connection (who eats who). There should be 10 connections. |  | |
| **Move to pages 1.3 – 1.7.**  After completing the simulation on page 1.2, answer questions 1 – 4 below and/or in your .tns file.  Q1. Identify the ecological relationship of each the following organism: Algae  A. Producer  B. Primary Consumer  C. Secondary Consumer  D, Tertiary Consumer  E. Decomposer  Q2. Identify the ecological relationship of each the following organism: Sea Star  A. Producer  B. Primary Consumer  C. Secondary Consumer  D, Tertiary Consumer  E. Decomposer  Q3. Identify the ecological relationship of each the following organism: Grunt  A. Producer  B. Primary Consumer  C. Secondary Consumer  D, Tertiary Consumer  E. Decomposer  Q4. Identify the ecological relationship of each the following organism: Dolphin  A. Producer  B. Primary Consumer  C. Secondary Consumer  D, Tertiary Consumer  E. Decomposer  Q5. Identify the ecological relationship of each the following organism: Crab  A. Producer  B. Primary Consumer  C. Secondary Consumer  D, Tertiary Consumer  E. Decomposer  Q6. Identify the ecological relationship of each the following organism: Jellyfish  A. Producer  B. Primary Consumer  C. Secondary Consumer  D, Tertiary Consumer  E. Decomposer  Q7. What organism(s) gives the crab energy? (Multiple answers possible)  A. Algae  B. Jellyfish  C, Sea Star  D. Dolphin  E. Grunt  Q8. What organism(s) gives the Jellyfish energy? (Multiple answers possible)  A. Algae  B. Crab  C, Sea Star  D. Dolphin  E. Grunt  Q9. What organism(s) gives the Sea Star energy? (Multiple answers possible)  A. Algae  B. Jelly fish  C, Crab  D. Dolphin  E. Grunt  Q10. What organism(s) gives the Dolphin energy? (Multiple answers possible)  A. Algae  B. Jellyfish  C, Sea Star  D. Crab  E. Grunt  Q11. What organism(s) gives the Grunt energy? (Multiple answers possible)  A. Algae  B. Jellyfish  C, Sea Star  D. Crab  E. Dolphin  Q12. What is the main source of energy for all living things?  Q13. What does a food web tell us about an ecosystem? | | |