2.2 Plants are Producers

Review

There are 5 levels of organization within multi-cellular organisms.

1.

2.

3.

4.

5.

Plants capture energy from **\_\_\_\_\_\_\_\_\_** and convert it to chemical energy through the process of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

Plants take in **\_\_\_\_\_\_\_\_\_** and **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**from the environment and use these simple materials to produce **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, an energy-rich compound that contains carbon.  **\_\_\_\_\_\_\_\_\_\_\_\_\_** is also produced.  Plants are referred to as **\_\_\_\_\_\_\_\_\_\_\_\_\_** because they produce energy-rich carbon compounds using the **\_\_\_\_\_\_\_\_\_\_** energy.

Draw photosynthesis below:

Another name for a plant is **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.  Autotroph means **\_\_\_\_\_\_\_\_\_**-feeder.  Plants do not require food from other organisms.  
  
What is cellular respiration and how does it relate to plants?

**Plants respond to their environment**  
During a hot afternoon, parts of the flower known as the Mexican bird of paradise close.  As the Sun goes down, the flower reopens.  The plant is responding to a stimulus, in this case, sunlight.  A **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** is something that produces a response from an organism.  Plants like all organisms, respond to stimuli in their environment.  This ability helps them to survive and grow.  
How are plants stimulated by:  
Gravity

Touch

Light