**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Online Activity – Photosynthesis**

*Video Guide Worksheet*

1. Some \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, some bacteria and plants can all run a process known as photosynthesis.
2. Photosynthesis produces a gas known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, that allow humans to breathe.
3. Plants and animals need the sugar known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to make ATP Energy.
4. Complete the balanced formula for Photosynthesis:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + 6H2O -------------------- > 6O2 + \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. C6H12O6 is a sugar known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. One pigment that plants use to absorb light is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. List the two major reactions that occur in the chloroplast, that together make up the process of photosynthesis.

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is another name for the Light Independent Reaction (Dark reaction) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The light dependent reactions happen inside the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which are little compartments in the chloroplast that contain chlorophyll. They consist in stacks known as grana.
3. During the light dependent reactions, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is split.
4. The light independent reactions happen in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (a fluid that is found on the outside of the Thylakoids.
5. The process of photosynthesis is necessary for plants to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. Photosynthesis is important because plants are able to provide energy to a lot of hungry \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.