**Photosynthesis Notes**

* Photosynthetic organisms are \_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* **Producers** make their own source of chemical energy.
* Plants use **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and are producers.
* Photosynthesis captures energy from sunlight to make sugars…. In the form of \_\_\_\_\_\_\_\_\_\_\_\_
* Another name for producers is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  is a molecule that absorbs light energy.
* In plants, chlorphyll is found in \_\_\_\_\_\_\_\_\_\_ called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Therefore, photosynthesis in plants occurs in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** capture energy from sunlight
* Draw one here……
* The chemical reaction makes sugar. (Glucose) but needs \_\_\_\_\_\_\_\_\_ from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* REQUIRES \_\_\_\_\_\_\_\_\_\_\_(Sunlight) & **\_\_\_\_\_\_\_\_\_\_** . \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is released
* The equation for the overall process is:

The reactants (what is required) are:

The Products (what is produced) are:

The equation above must also have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in order to occur.

**ATP**

After the class demonstration….. answer the following questions.

ATP stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

ATP is the main \_\_\_\_\_\_\_\_\_\_\_\_\_ molecule for living organisms.

When glucose is broken down ATP molecules are made so that organisms will have \_\_\_\_\_\_\_\_\_\_\_ to grow, develop, digest, respire etc.