**Photosynthesis Guided Notes**

Cells Need Energy

- To stay alive, cells need a constant supply of energy. Animals get energy from *food*, while plant cells get energy from \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**- Chemical energy-** energy stored in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between atoms of every molecule

- A major energy source for most cells is stored in a sugar molecule called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Why do we need energy?

- When you need energy, cells release chemical energy from \_\_\_\_\_\_\_\_\_\_\_.

- When you move, muscle cells release chemical energy from glucose (­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) to move your legs.

- The more you move, the more glucose your muscle cells need. You eat food to restore the glucose supply in muscles. (Remember, glucose is \_\_\_\_\_\_\_\_\_\_!)

- Plants transform the energy in sunlight into the chemical energy in glucose in their \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

- ­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- The process that plant cells use to change the energy from sunlight into nutrients for the plant.

- The source of energy for **all** organisms ultimately comes from the Sun.

- Takes place in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of plant cells.

- Chloroplasts contain **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** which traps the sunlight.

How does photosynthesis work?

1. **The starting materials: \_\_\_\_**\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. **The process:** Carbon dioxide and water enter the plant cell’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Meanwhile, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is capturing energy from the sun.

3. **The products:** Glucose and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



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