

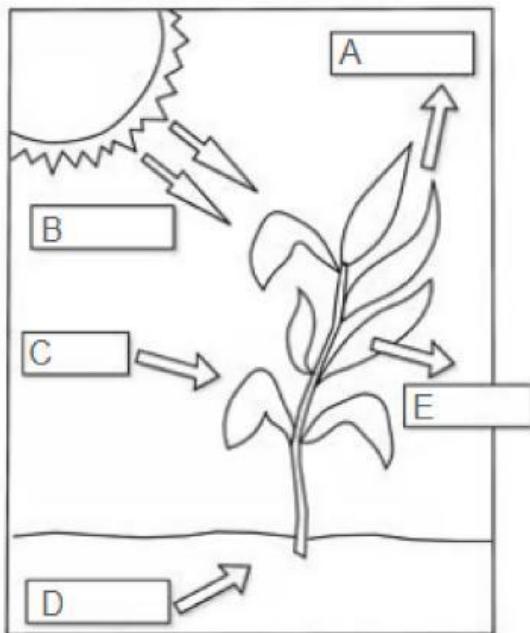
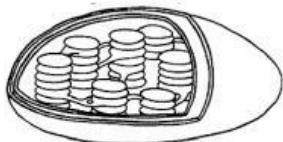
**STUDY GUIDE: CRM 3.2 - PROCESSES OF LIVING SYSTEMS****Activity 1: Photosynthesis**

1. Photosynthesis is how plants and algae make \_\_\_\_\_ from sunlight.

Where does photosynthesis take place?

2. This is a \_\_\_\_\_, the cellular organelle where photosynthesis occurs. Inside are stacks of \_\_\_\_\_, the green pigment that can absorb light energy from the sun so the plant can use it for photosynthesis.

(please arrow from the word to the location in the diagram to the right)

**3. Label the diagram**

**Word Bank:** Water, oxygen, carbon dioxide, sugar, sunlight

A.  
B.  
C.  
D.  
E.

**Activity 2: Cellular Respiration**

1. Cellular Respiration is how living things get \_\_\_\_\_ to survive from their food.

2. Cellular Respiration happens in the \_\_\_\_\_, the powerhouse of the cell.

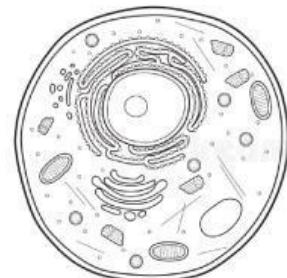
### 3.2 Processes of Living Systems

#### 3. Label the diagram

Needed	Released
a.	b.
d.	c.
	e.

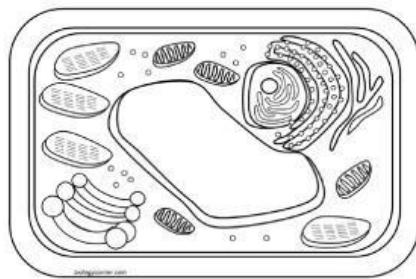


4. Label 3 organelles they have IN COMMON.



\_\_\_\_\_ cell

5. Label 3 organelles that are DIFFERENT.

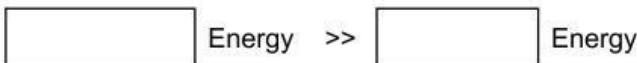


\_\_\_\_\_ cell

#### Activity 3: Law of Conservation

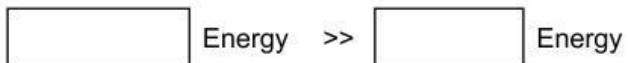
1. Fill in the form of ENERGY.

##### Photosynthesis



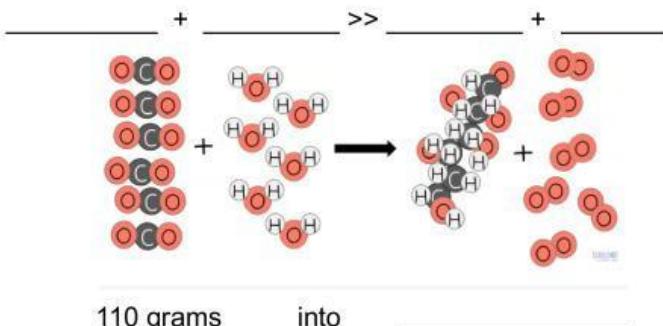
2. Fill in the form of ENERGY.

##### Cellular respiration



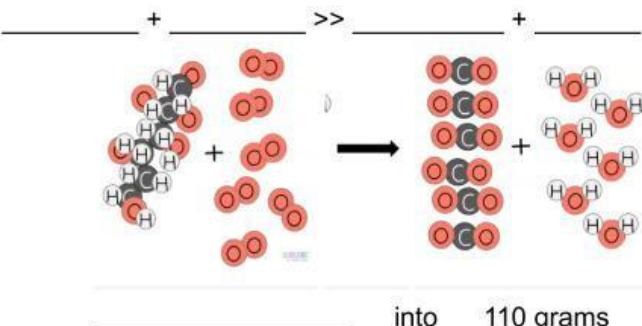
3. Fill in the form of MATTER.

##### Photosynthesis



4. Fill in the form of MATTER.

##### Cellular Respiration



5. Matter/ Energy cannot be \_\_\_\_\_ or \_\_\_\_\_ only \_\_\_\_\_.