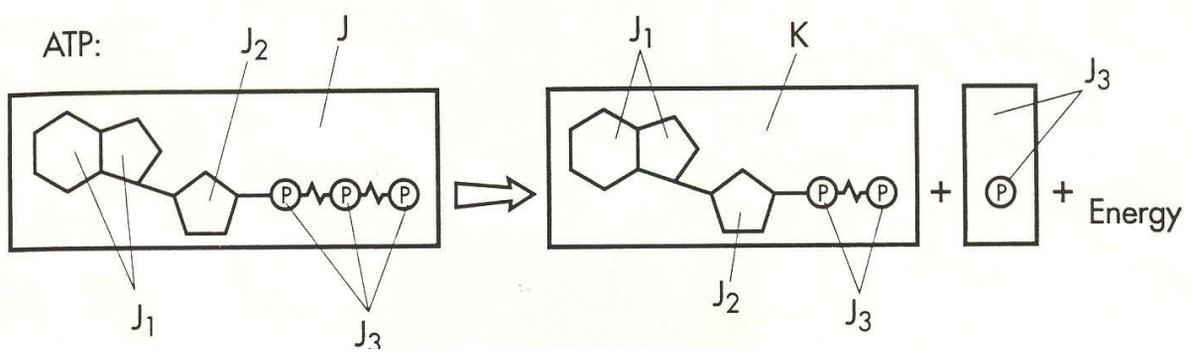
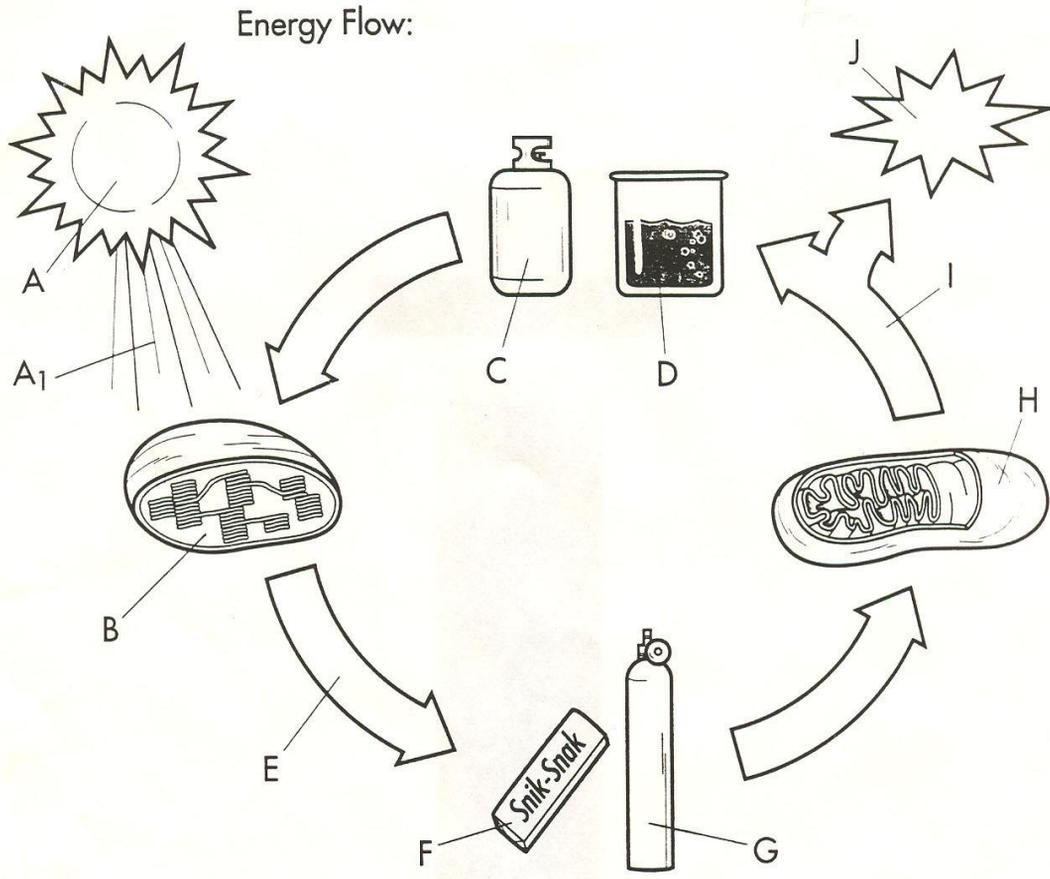


Energy Flow in Living Things



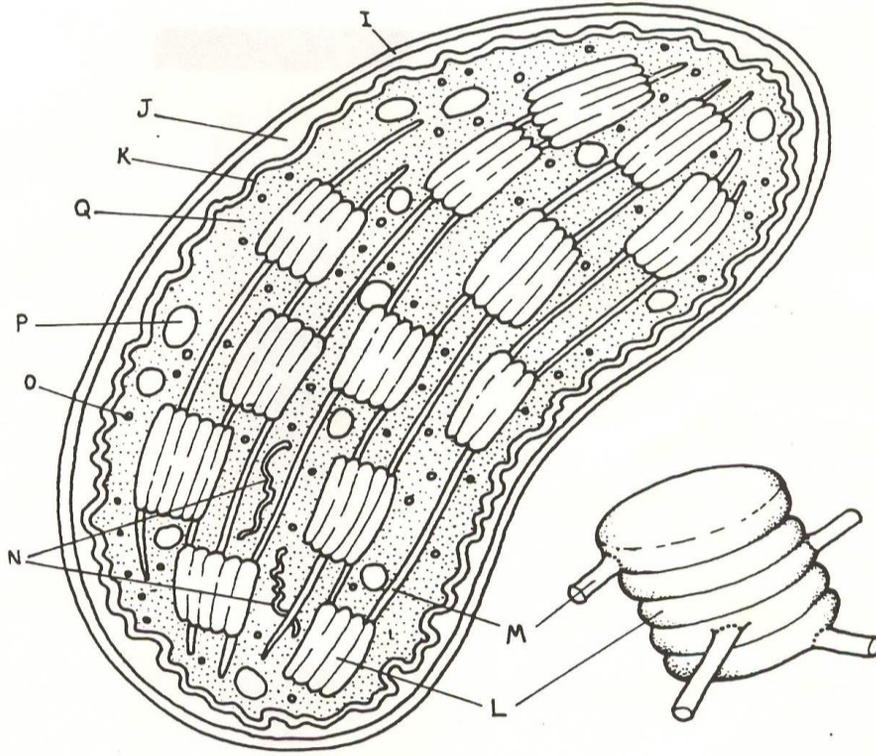
Directions: Read and answer the questions on the following page. Then color the items as directed. If it does not tell you what color to color an item chose a color of your liking.



1. All of the energy on the Earth comes from the _____ (A). Color it yellow.
2. The sun's energy is trapped in a photosynthesizing organelle called the _____ (B). Color it green.
3. A number of chemical reactions take place to transform solar energy into _____ energy.
4. _____ and _____ are necessary for the process of photosynthesis (C and D). Color them blue.
5. One of the products of photosynthesis are _____ which are represented by a candy bar (F). Color is red.
6. The other product of photosynthesis is oxygen it is represented by a _____ (G). Color it gray.
7. Carbohydrates are transported to the organelle called the _____ (H). Color it purple.
8. During chemical reactions in the mitochondria energy is released from the carbohydrates to form the energy rich molecule _____ (J).
9. The components of the ATP molecule include an _____ molecule (J1), a _____ sugar (J2), and three _____ groups (J3). Color J1 brown, J2 orange, and J3 pink.
10. Living things use energy in the form of ATP, breaking it down into _____ (K) and a _____ group (J3).
11. When ATP is broken down into ADP energy is _____.



Chloroplast



Directions: Fill in the blank with the correct word and then color the item in the picture.

1. Although chloroplasts are found only in _____ and _____, they are very important to all living things.
2. Sunlight is trapped and converted to chemical energy by chloroplasts in the process of _____.
3. Chloroplasts are surrounded by a _____ membrane (K and I). Color them yellow.
4. _____ is the pigment that actually traps light energy.
5. Pigments are found in flattened sacs called _____ (L). Color them green.
6. These sacs are arranged in stacks called _____. Color the stack shown outside the organelle red.
7. The fluid that fills the remaining space in the chloroplast is called the _____. Color this space orange.
8. The main product of photosynthesis is _____, which is made into starch molecules and is collected in starch grains in the chloroplasts (P). Color them purple.