

ENERGY: EXERGONIC, ENDERGONIC, SPONTANEOUS

Exergonic reactions: _____

Endergonic reactions: _____

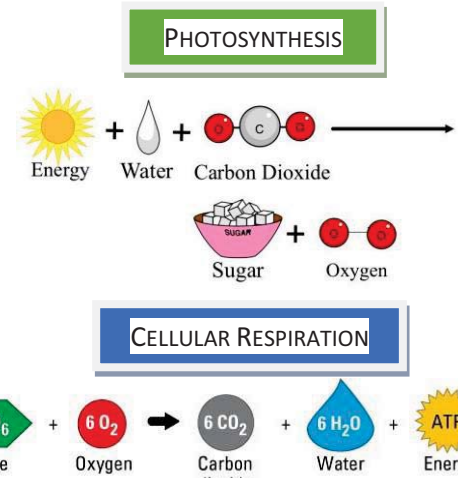
Spontaneous reactions: _____

Photosynthesis is an _____ reaction.

Chemical equation of

Cellular respiration is an _____ reaction.

Chemical equation of respiration

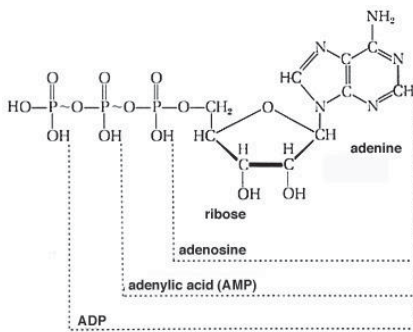


ENERGY: ATP – ADENOSINE TRIPHOSPHATE

There are 1 billion molecules of ATP in every cell.

The phosphate bonds on ATP get used and replaced every 2 to 3

minutes. That means you recycle 2-3 pounds of ATP each day!



When ATP is hydrolyzed through hydrolysis, heat and energy are released which the cell's proteins harness to do four things:

- _____
- _____
- _____
- _____

ENERGY: FLOW

Organisms that cannot convert sunlight into energy are dependent on those that can. Plants support all life on this planet.

Most of an organism's energy gets consumed in _____

Anabolism: _____

Catabolism: _____

Visible light is the form of energy plants absorb.

Why is the sky blue?

Why are plants green?

