

## **Energy is like a battery:**



To get energy we use a molecule,

Adenosine Triphosphate (ATP) that is
like a battery.
It gets used up and then can be
"recharged" to create more.

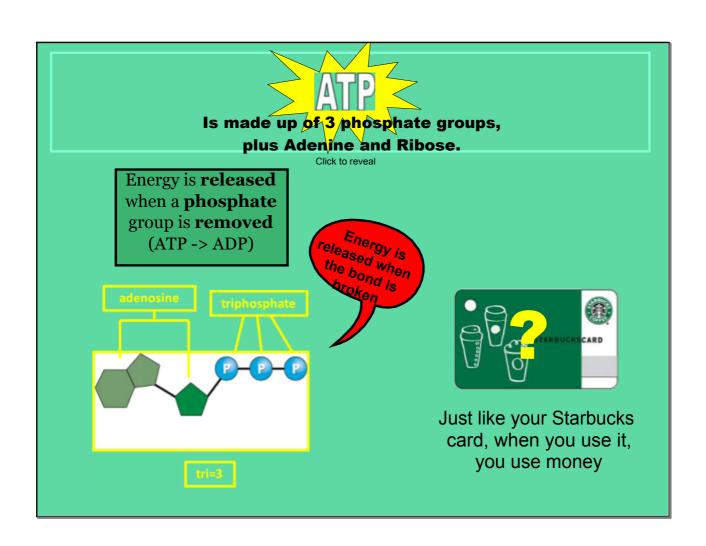
## ATP is the <u>carrier</u> of <u>chemical energy</u> in cells!

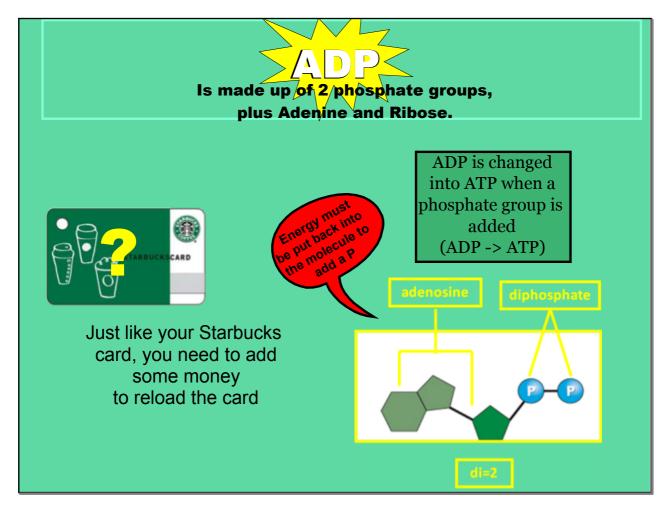
Example: Starbucks card carries money

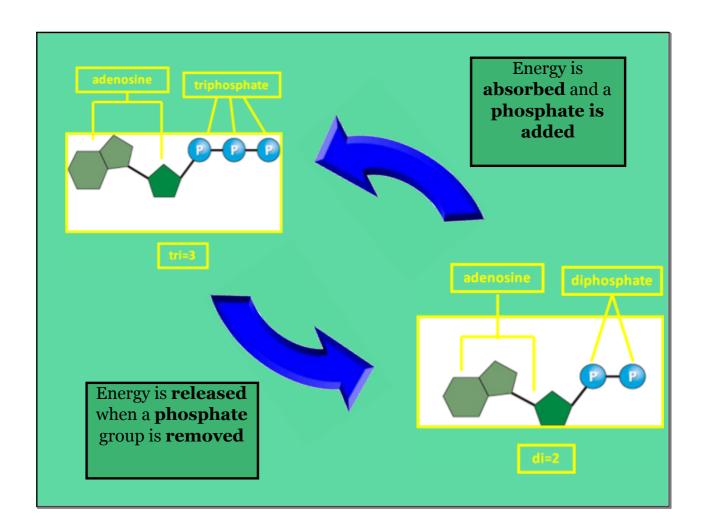




ATP carries chemical energy!







## Where does it come from?

Organisms break down carbon-based molecules to produce ATP

- <u>Carbohydrates</u> are the molecules **most commonly** broken down to make ATP
- **not** stored in large amounts
- up to **36 ATP** molecules from **1 glucose** molecule
- <u>Fats</u> store the **most energy**
- Makes up 80% of the energy in your body
- about 146 ATP molecules from 1 triglyceride
- **Proteins** are **least likely** to be **broken** down to make ATP
- about the same amount of energy as a carbohydrate

