SCIENCE

NAME: PERIOD: DATE:

Cellular Processes Simplified Notes

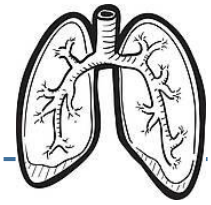
PHOTOSYNTHESIS

Who uses it?	What it does…	Reactants / raw materials / what it needs	Products (useful)	Products (waste)
Producers only	Makes food from non-food materials.	sunlight, H_2O (water), CO_2 (carbon dioxide)	$C_6H_{12}O_6$ (glucose) (food)	O_2 (oxygen)

Where does it happen?
chloroplast

RESPIRATION

Who uses it?	What it does…	Reactants / raw materials / what it needs	Products (useful)	Products (waste)
Producers & Consumers	Gets energy out of food (glucose)	$C_6H_{12}O_6$ (glucose), O_2 (oxygen)	Chemical energy	H_2O (water), CO_2 (carbon dioxide)



Where does it happen?
mitochondria

FERMENTATION

Who uses it?	What it does…	Reactants / raw materials / what it needs	Products (useful)	Products (waste)
Producers & Consumers	Gets energy out of food (glucose)	$C_6H_{12}O_6$ (glucose)	Chemical energy	CO_2 (carbon dioxide) + something else: C_2H_5OH (alcohol), or $C_3H_6O_3$ (lactic acid), or H_2 (hydrogen gas)

Where does it happen?
cytoplasm