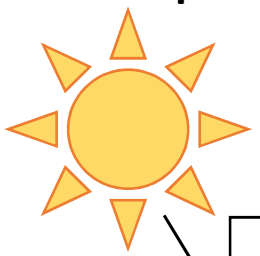
Name: _____ Date: _____ Class: _____

Photosynthesis and Cellular Respiration Activity Worksheet Answer Key

carbon dioxide + water

CO_2 H_2O



Light energy

glucose + oxygen

$C_6H_{12}O_6$ O_2

Table 1 Initial Atom Count

Atom	How many?
Carbon (C)	1
Hydrogen (H)	2
Oxygen (O)	3

Photosynthesis takes place in Chloroplasts (in plants)

Table 2 Initial Atom Count

Atom	How many?
Carbon (C)	6
Hydrogen (H)	12
Oxygen (O)	8

Table 4 Final Atom Count

Atom	How many?
Carbon (C)	1
Hydrogen (H)	2
Oxygen (O)	3

Cellular respiration takes place in Mitochondria (in plants and animals)

Table 3 Final Atom Count

Atom	How many?
Carbon (C)	6
Hydrogen (H)	12
Oxygen (O)	8

Initial Mass: Student-weighed mass

Final Mass: Student-weighed mass

ATP

Molecules used to power life activities

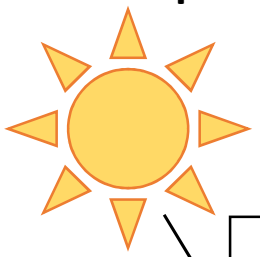
Initial Mass: Student-weighed mass

Final Mass: Student-weighed mass

Photosynthesis and Cellular Respiration Activity Worksheet Answer Key

carbon dioxide + water

6 CO_2 6 H_2O



Light energy

glucose + oxygen

$C_6H_{12}O_6$ 6 O_2

Table 1 Initial Atom Count

Atom	How many?
Carbon (C)	6
Hydrogen (H)	12
Oxygen (O)	18

Photosynthesis takes place in Chloroplasts (in plants)

Table 2 Initial Atom Count

Atom	How many?
Carbon (C)	6
Hydrogen (H)	12
Oxygen (O)	18

Table 4 Final Atom Count

Atom	How many?
Carbon (C)	6
Hydrogen (H)	12
Oxygen (O)	18

Cellular respiration takes place in Mitochondria (in plants and animals)

Table 3 Final Atom Count

Atom	How many?
Carbon (C)	6
Hydrogen (H)	12
Oxygen (O)	18

Initial Mass: Student-weighed mass (should equal or be close to final mass)
Final Mass: Student-weighed mass (should equal or be close to initial mass)

ATP

Molecules used to power life activities

Initial Mass: Student-weighed mass (should equal or be close to final mass)
Final Mass: Student-weighed mass (should equal or be close to initial mass)