Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Photosynthesis and Cellular Respiration Activity Worksheet Answer Key**



Initial Mass: Student-weighed mass

Final Mass: Student-weighed mass \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Initial Mass: Student-weighed mass

Final Mass: Student-weighed mass

ATP

Molecules used to power life activities

**Cellular respiration** takes place in

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Photosynthesis** takes place in

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Table 3 Final Atom Count

Table 4 Final Atom Count

Table 2 Initial Atom Count

Table 1 Initial Atom Count

glucose + oxygen

**H2O**

carbon dioxide + water

**O2**

**C6H12O6**

**CO2**

Light energy

Chloroplasts (in plants)

6

1

12

2

8

3

1

6

Mitochondria (in plants and

animals)

12

2

3

8

**Photosynthesis and Cellular Respiration Activity Worksheet Answer Key**



ATP

Molecules used to power life activities

**Cellular respiration** takes place in

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Photosynthesis** takes place in

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Table 3 Final Atom Count

Table 4 Final Atom Count

Table 2 Initial Atom Count

Table 1 Initial Atom Count

glucose + oxygen

carbon dioxide + water

**C6H12O6**

**6 O2**

**6 H2O**

**6 CO2**

Light energy

6

Chloroplasts (in plants)

6

12

12

18

18

6

6

Mitochondria (in plants and

animals)

12

12

18

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)

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)