You and your co-habitants use up \_\_\_\_\_\_ grams of glucose in cellular respiration. How many grams of oxygen are used up in this process? The equation for respiration is:

 $C_6H_{12}O_6 \ \textbf{+} 6 \ O_2 \ \rightarrow 6 \ CO_2 \textbf{+} 6 \ H_2O$ 

How many grams of water will be produced?

At the same time, photosynthesis uses \_\_\_\_\_\_ grams of carbon dioxide. How many grams of oxygen are produced? The equation for photosynthesis is:  $6 \text{ CO}_2 + 6 \text{ H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2$ 

Explain what effect these processes have on the availability of oxygen for you and your fellow humans.

You and your co-habitants are releasing \_\_\_\_\_\_ grams of carbon dioxide as a product of respiration. How many grams of oxygen are used up in this process?

The equation for respiration is:

 $C_6 H_{12} O_6 \ + 6 \ O_2 \ \rightarrow 6 \ CO_2 + 6 \ H_2 O$ 

How many grams of water will be produced?

At the same time, the plants in your habitat release \_\_\_\_\_\_ grams of oxygen as a result of photosynthesis.

How many grams of carbon dioxide were used? The equation for photosynthesis is:

 $6 \ CO_2 + 6 \ H_2O \rightarrow C_6H_{12}O_6 \ + 6 \ O_2$ 

Explain what effect the net change in CO<sub>2</sub> has for you and your fellow humans.

The plants in your HAB are consuming\_\_\_\_\_\_ grams of water during photosynthesis. How many grams of oxygen are produced? The equation for photosynthesis is:

 $6 \ CO_2 + 6 \ H_2O \rightarrow C_6H_{12}O_6 \ + 6 \ O_2$ 

Meanwhile, you and your co-habitants are burning \_\_\_\_\_\_ grams of glucose during respiration. How many grams of oxygen are used up in this process? The equation for respiration is:

 $C_{6}H_{12}O_{6} \ + 6 \ O_{2} \ \rightarrow 6 \ CO_{2} + 6 \ H_{2}O$ 

How many grams of carbon dioxide are being produced by respiration?

Explain what effect these processes have on the availability of oxygen for you and your fellow humans.

You and your co-habitants have plants that consume \_\_\_\_\_ grams of carbon dioxide during photosynthesis. How many grams of oxygen are produced?

The equation for photosynthesis is:

 $6 \text{ CO}_2 + 6 \text{ H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2$ 

How many grams of glucose are produced?

Meanwhile, you and your fellow humans are producing \_\_\_\_\_\_ grams of water from cellular respiration.

How many grams of glucose are used up in this process? The equation for respiration is:

 $C_{6}H_{12}O_{6} \ + 6 \ O_{2} \ \rightarrow 6 \ CO_{2} + 6 \ H_{2}O$ 

Explain what effect these processes have on the availability of glucose for you and your fellow humans

The plants in your HAB are consuming \_\_\_\_\_\_ grams of water during photosynthesis. How many grams of oxygen are produced? The equation for photosynthesis is:

 $6 \ CO_2 + 6 \ H_2O \rightarrow C_6H_{12}O_6 \ + 6 \ O_2$ 

How many grams of glucose are produced?

At the same time, you are burning \_\_\_\_\_\_ grams of methane, CH<sub>4</sub>, collected from human waste to keep the HAB warm.

How many grams of oxygen are used up?

The equation for combustion of methane is:

 $CH_4 + 2 \ O_2 \ \rightarrow CO_2 \ + 2 \ H_2O$ 

Explain what effect these processes have on the availability of oxygen for you and your fellow humans.

You and your co-habitants burn \_\_\_\_\_ grams of methane, CH<sub>4</sub>, to generate heat for your habitat. How many grams of oxygen are used up? The equation for combustion of methane is:

 $CH_4 + 2 \ O_2 \ \rightarrow CO_2 \ + 2 \ H_2O$ 

How many grams of carbon dioxide are produced?

At the same time, you humans burn \_\_\_\_\_\_ grams of glucose in cellular respiration. How many grams of oxygen are used up in this process? The equation for respiration is:

 $C_{6}H_{12}O_{6} \ + 6 \ O_{2} \ \rightarrow 6 \ CO_{2} + 6 \ H_{2}O$ 

Explain what effect these processes have on the essential gases needed for you and your fellow humans.