Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

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### Lesson 1.4 Investigating Plant Growth

1. **BTB changes for plants in the light and dark**

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| **Plants in the light** | **Plants in the dark** |
| **Predictions**  What will happen to the blue BTB?  Why do you think that will happen?  What will happen to the yellow BTB?  Why do you think that will happen? | **Predictions**  What will happen to the blue BTB?  Why do you think that will happen?  What will happen to the yellow BTB?  Why do you think that will happen? |
| **Observations**  What did happen to the blue BTB?  What did happen to the yellow BTB?  What does this imply about where carbon dioxide is moving? | **Observations**  What did happen to the blue BTB?  What did happen to the yellow BTB?  What does this imply about where carbon dioxide is moving? |

1. **Investigating mass changes during plant growth - Predictions**

When plants grow, where does their mass come from?

Explain your answer.

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| --- | --- |
| **Predictions**  What will happen to the mass of the plants?  It will:  STAY SAME INCREASE DECREASE  Explain your answer. | What will happen to the mass of the vermiculite?  STAY SAME INCREASE DECREASE  Explain your answer. |
| Compared to the mass change of the vermiculite, will the mass change in the plants be:  SAME BIGGER SMALLER?  Explain your answer. | |

1. **Three Questions about plants growing in the light**

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| --- | --- |
| **The Location/Movement Question: Explaining changes:** Draw your ideas about how atoms are moving on the picture below.  plant01.jpg | **The Carbon Question:** What is happening to carbon atoms?  How do you know? |
| Where are atoms moving from? Where are atoms going to? | **The Energy Question: Explaining changes in forms of energy:** How do you think that energy is changing from one form to another? |