**Respiration and Transpiration ITG Video Questions 3.02, P:1**

1. Describe transpiration?
2. Fill in the following table.

|  |  |  |
| --- | --- | --- |
| Organelle | Location on Plant | What it does |
| Stomata |  |  |
| Guard Cell |  |  |

1. What are the four factors that influence transpiration rate?
2. Why did Bryce think it was not a good idea to transplant the plant on that day at that time?
3. What are the four things that a plant does with its sugars that it produces?
4. What is plant respiration?
5. Write down the equation for respiration below:

C\_H\_\_O\_ + O\_ = CO\_ + H\_O + \_\_\_\_\_\_

1. A plant harnesses light energy and then can convert this to sugar. It will then use the chemical energy to make (List one): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. What influences the rate of sugar burn or what is the primary regulator?
3. Why is spring time such a great time for plant growth?
4. What happens when there is not enough sugar produced?
5. What are some of the symptoms of a plant that is not making enough sugar that it is burning?
6. What is the biggest killer of houseplants? Why?
7. How would hurting a plant cause a plant to flower? What would happen to that plant the next year?
8. What is the plant of the week? Describe it?