**7th Grade Science Summer Assignment**

The completed assignment is **due Aug. 14** and will be entered into the first quarter gradebook. There will also be an assessment based on the assignment during the second week of school.

Read the highlighted text from the Science Summer Reading passage. Then do the following:

1. Match the pictures from the Pictures for Science page to the numbers in the Science Summer Reading text.
2. Answer the six Guided Questions below.
3. Make a list of questions you have about the content (minimum 4 questions). Make sure your questions are specific – “I don’t understand this” is not a question, and it is NOT specific. Do not use vocabulary questions such as “What does ‘component’ mean?”
4. Create a captioned picture for the Pure Substances vs. Mixtures template. The caption should explain the important features of each type of matter.

Tips for writing questions:

If you have trouble matching the pictures to the numbers in the text, write a question to help you make sense of the pictures.

If you have trouble understanding how a mixture is different from a chemical substance, ask a specific question to help you to understand the difference.

If you need additional information in order to understand the reading or to answer the guided questions, make one or more questions about what you need to know.

**Guided Questions**

1. Define the following terms and then annotate the definitions until they make sense to you.

atom, molecule, element, compound, pure substance, mixture, chemical bond

2. How can you tell the difference between a chemical compound and a chemical mixture?

3. How can you tell the difference between a chemical compound and an element?

4. Why is pure water a compound, not a mixture?

5. Why is oil and water a mixture, not a compound?

6. Fill in the blanks on the chart.