Name _____ Date _____ Class _____

School to Home **LESSON 2**

Measurement and Scientific Tools

Directions: *Use your textbook to respond to each statement.*

1. **Part of the process of scientific inquiry is making and discussing observations. Descriptions and explanations are used to tell about observations, but descriptions and explanations contain different information.**

   Contrast the information in a description and the information in an explanation.

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2. **The International System of Units is a set of base units and prefixes that can be used to express measurements.**

   Explain why the International System of Units is important in scientific communication.

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3. **SI units and prefixes make it possible to convert from one SI unit to another.**

   Set up and solve a proportion calculation to convert 1,892 grams to kilograms.

4. **Measurements can be evaluated to determine their accuracy and their precision.**

   Define *accuracy* and *precision* in your own words.

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5. **Scientists use significant digits to show the precision of measurements.**

   Identify the number of significant digits in the number 3,092.01. Explain your response.

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