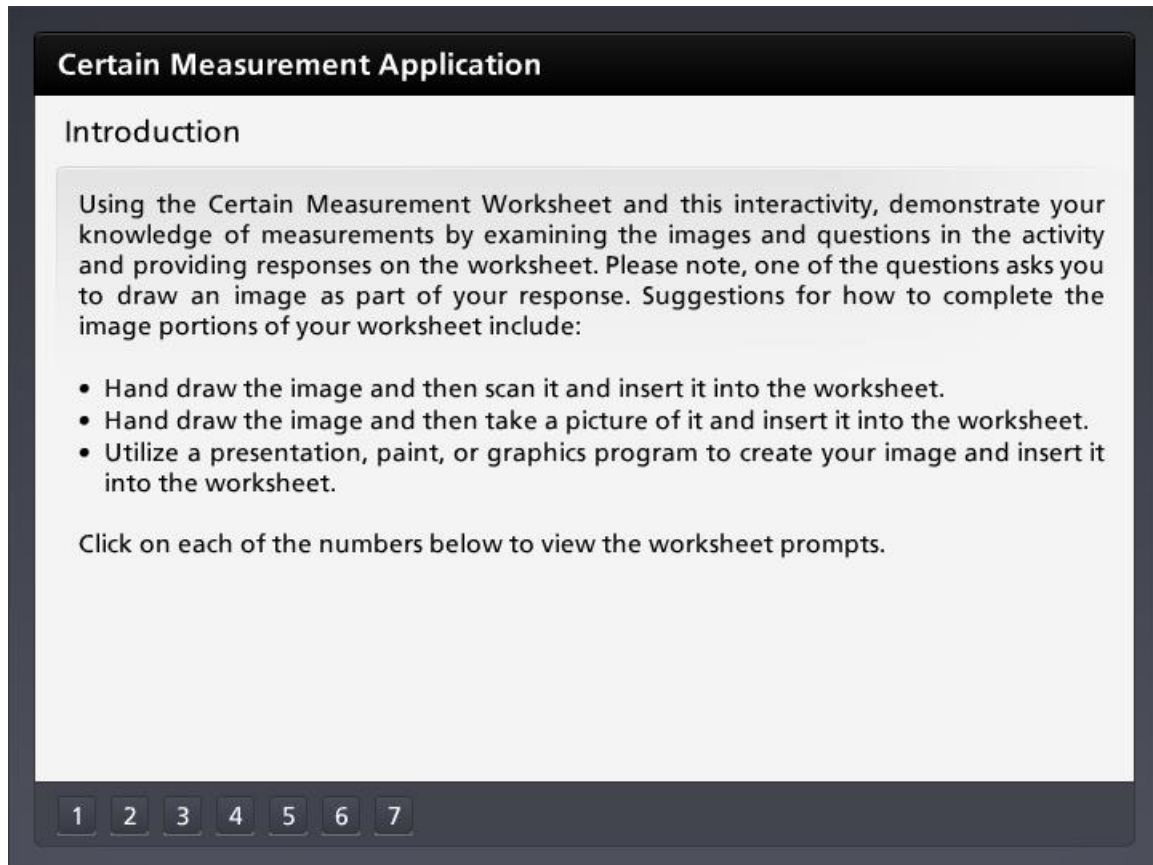


Introductory Module: Fundamentals of Science

Topic 2 Application: Certain Measurement Application

Introduction



Certain Measurement Application

Introduction

Using the Certain Measurement Worksheet and this interactivity, demonstrate your knowledge of measurements by examining the images and questions in the activity and providing responses on the worksheet. Please note, one of the questions asks you to draw an image as part of your response. Suggestions for how to complete the image portions of your worksheet include:

- Hand draw the image and then scan it and insert it into the worksheet.
- Hand draw the image and then take a picture of it and insert it into the worksheet.
- Utilize a presentation, paint, or graphics program to create your image and insert it into the worksheet.

Click on each of the numbers below to view the worksheet prompts.

1 2 3 4 5 6 7

Using the Certain Measurement Worksheet and this interactivity, demonstrate your knowledge of measurements by examining the images and questions in the activity and providing responses on the worksheet. Please note, one of the questions asks you to draw an image as part of your response. Suggestions for how to complete the image portions of your worksheet include:

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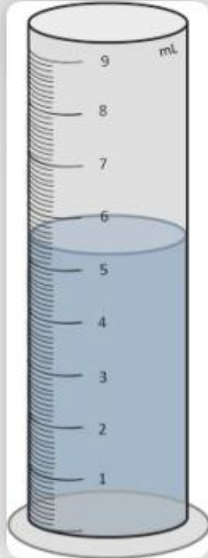
Topic 2 Application: Certain Measurement Application

Certain and Uncertain Digits

Certain Measurement Application

Certain and Uncertain Digits

A graduated cylinder which can properly measure 5.46 mL of liquid would look like the image shown here. Which of the digits in the measurement are certain and which are uncertain?



1 2 3 4 5 6 7

A graduated cylinder which can properly measure 5.46 mL of liquid would look like the image shown here. Which of the digits in the measurement are certain and which are uncertain?

Introductory Module: Fundamentals of Science


Topic 2 Application: Certain Measurement Application

Measurements

Certain Measurement Application

Measurements

Draw a graduated cylinder which can properly measure 5.4 mL of liquid.



1 2 3 4 5 6 7

Draw a graduated cylinder which can properly measure 5.4 mL of liquid.

Introductory Module: Fundamentals of Science

Topic 2 Application: Certain Measurement Application


Accuracy and Precision

Certain Measurement Application

Accuracy and Precision

The dart points on this dart board target would represent something that is (select one of the options below):

- Accurate But Not Precise
- Precise But Not Accurate
- Both Precise and Accurate
- Neither Precise Nor Accurate



1 2 3 4 5 6 7

The dart points on this dart board target would represent something that is (select one of the options below):

- Accurate But Not Precise
- Precise But Not Accurate
- Both Precise and Accurate
- Neither Precise Nor Accurate

Introductory Module: Fundamentals of Science

Topic 2 Application: Certain Measurement Application

Accuracy and Precision

Certain Measurement Application

Accuracy and Precision

The closeness of a measurement to its true value is called its (select one of the options below):

- Precision
- Accuracy
- Percent Error
- Uncertain Digit

1 2 3 4 5 6 7

The closeness of a measurement to its true value is called its (select one of the options below):

- Precision
- Accuracy
- Percent Error
- Uncertain Digit

Introductory Module: Fundamentals of Science


Topic 2 Application: Certain Measurement Application

Conversion

Certain Measurement Application

Conversion

Convert .0056 km into meters.



1 2 3 4 5 6 7

Convert .0056 km into meters.

Introductory Module: Fundamentals of Science

Topic 2 Application: Certain Measurement Application

Conversion

Certain Measurement Application

Conversion

Convert 567 milligrams to grams.

1 2 3 4 5 6 7

Convert 567 milligrams to grams.

Introductory Module: Fundamentals of Science


Topic 2 Application: Certain Measurement Application

Calculating Mean/Average

Certain Measurement Application

Calculating Mean/Average

Calculate the mean or average of these four measurements: 58.9 meters; 54.6 meters; 46.6 meters and 48.9 meters? Use three digits in your answer.



1 2 3 4 5 6 7

Calculate the mean or average of these four measurements: 58.9 meters; 54.6 meters; 46.6 meters and 48.9 meters? Use three digits in your answer.