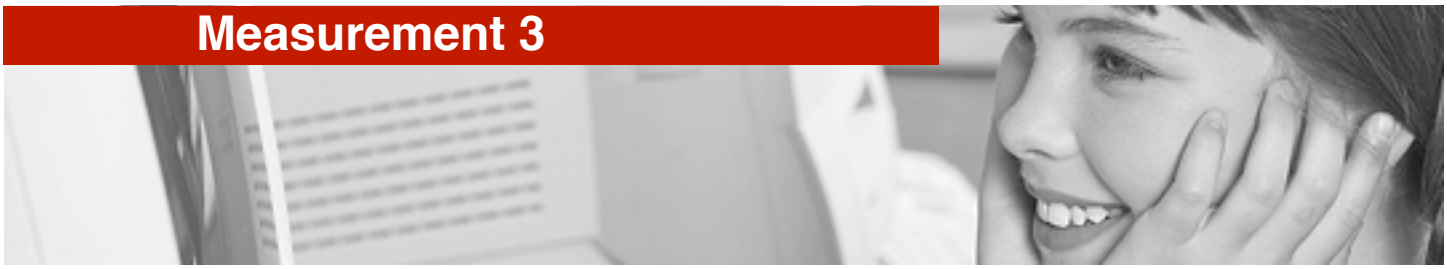
# Measurement 3



## Measurement 3

**Measurement 3** is designed to refine the student's measurement skills learned in the first two programs. Helpful audio instructions and help buttons ensure that students will navigate these activities easily and with confidence. Students will be motivated to succeed by a series of colorful pictures and sounds as their rewards. The program teaches skills by using a wide variety of multi-sensory activities. Both metric and standard systems of measurement are covered, along with American and Canadian money. **Measurement 3** was developed by experienced teachers to develop the students' skills in estimating, measuring and recording a wide variety of measurements.

## Targeted Skills

- Make purchases and calculate change for purchases of up to ten dollars.
- Read analog clocks to the nearest five minutes and read the date from a calendar.
- Read a thermometer.
- Measure length, height, distance, capacity, volume, mass, perimeter and area using non standard and standard units. Estimate measurements of familiar real world objects.
- Understand the relationships between different units of measure for length, height, distance, capacity, volume, mass, perimeter and area and convert between them.
- Understand the symbols of various units of measure.
- Compare and order different measurements using standard and non-standard units.

## Teacher Dashboard

The Teacher Dashboard tracks student progress throughout each program and records the percentage score for every activity completed. This feature provides an overview of how well a student is progressing and allows the teacher to identify strengths and weaknesses.

- Records students' results automatically as they work.
- Prints reports quickly and easily for sharing with parents and staff.
- Provides summary reports by subject or detailed reports by activity.
- Allows teachers to print reports for individual students or an entire class.
- Stores student marks in one central location for all programs.

# Measurement 3

**Program Outline**

The program is broken down into 9 main units, which can all be accessed from the main menu. On the following pages, each of these different units are broken down. The main menu units are:

1. Money
2. Telling Time
3. Temperature
4. Length, Height & Distance
5. Perimeter & Area
6. Capacity & Volume
7. Mass
8. Measurement Review
9. Units of Measure

# Measurement 3

1 - Money

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Dollar Notation 1** | Match the dollar value in the right column with the correct amount of pennies in the left column. | Convert money amounts from # of pennies to dollar notation. |
| **Dollar Notation 2** | Write this number of pennies in dollar formation. | |
| **Pennies to Dollars** | | |
| **Mixed Coins to Dollars** | Type the correct amount of dollars and cents that is equal to the amount of coins you see. (printed and depicted) | Count values of money up to ten dollars. |
| **What is the Total Value?** | | |
| **How Many Coins Make the Amount?** | Type the numbers of coins you will need to make up the amount of money written. | |
| **Which is More Money?** | Pick the amount of coins that is worth more money. | Compare values of money up to ten dollars. |
| **Change from a Dollar** | How much would you have left if you bought the item shown. | Calculate change for purchases of up to ten dollars. |
| **How Much Would You Have Left Over?** | | |
| **Shopping Trip** | Click on the objects to buy the number of objects shown without going over the amount of money you have. | Count values of money up to ten dollars. |
| **Money Chart** | Fill in the missing information in the chart of # of objects bought and total cost. | |

# Measurement 3

2. Telling Time

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **How Many x in a x** | Enter the number of time units that equals the other unit shown. | Understand the relationship between different units of measure for time and convert between them. |
| **How Many?** | How many weeks, days, months, etc are in x weeks, days, months, etc. | |
| **Choose the Correct Time** | Click on the correct time for each clock. | Read an analog clock to the nearest five minutes. |
| **Put the Time in the Digital Watch** | Type the correct time into the digital watch. | |
| **What Time Will it Be In...** | Add the given time to the clock shown. | Add an amount of time to a given amount of time to the nearest five minutes. |
| **Word Problems** | Various word problems involving adding increments of time to a given time. | |
| **Time Charts** | Fill in the chart by adding or subtracting the given time. | |
| **Calendar** | Read the calendar and answer various questions about the days of that month. | Read the day of the week, date and month from a calendar. |
| **What Day is It?** | Type the full name of the day of the week, then type the date and month of the day that is checked on the calendar. | |

# Measurement 3

## 3 - Temperature

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Hear & Match** | Click on the thermometer that matches the temperature that you hear. | Read a thermometer. |
| **Measure the Temperature** | Type the temperature that you see. | |
| **What's the Difference in Temperature?** | Read each of the two thermometers and identify the difference in temperature between them. | Read a thermometer and add or subtract a given number of degrees. |
| **Getting Warmer, Getting Colder** | Add or subtract the number of degrees you hear, then click on what the new temperature should be. | |

## 4 . Length, Height & Distance

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Fill in the Blank** | Enter the number of units for each unit equivalency. | Understand the relationship between different units of measure for length, height and distance and convert between them. |
| **True or False** | Answer true or false questions about the relationships between units of measure. | |
| **Which is the Longest or Shortest?** | Pick the longest or shortest measurement among different units. | |
| **Measure the Length** | Type the correct length for each object. | Measure length using a ruler and standard units of measure. |
| **Track** | Look at how far runners have gone on a track and answer questions about the distances between them. | |
| **Measure the Height** | Answer questions about the height of different objects and the differences between them. | Measure height using a ruler and standard units of measure. |
| **Click the Height** | Click on the shortest / tallest object. | Compare different heights. |
| **Travel the City** | Find distances on a map. | Measure length using non-standard units. |

# Measurement 3

5 - Perimeter & Area

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Area or Perimeter** | Click on the picture that shows area / perimeter. | Understand the difference between area and perimeter. |
| **What is the Perimeter?** | What is the distance around this shape? | Measure perimeter in non-standard units. |
| **Around the Outside** | Click on the perimeter of each object. | Measure perimeter in standard units. |
| **Comparing Perimeters** | Click on the object that has the largest perimeter. | Estimate and compare perimeters of various real world objects. |
| **Area** | What is the area covered by each shape? | Measure area in non-standard units. |
| **Guess the Area** | | |
| **Comparing Areas** | Click on the object that has the most area. | Estimate and compare areas of various real world objects. |
| **Word Problems** | Calculate the area and perimeter of these objects. | Measure area in non-standard units.<br>Measure perimeter in non-standard units. |

# Measurement 3

## 6 - Capacity & Volume

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Order the Capacity** | Click on the pictures in order from the smallest capacity to the greatest capacity. | Estimate and compare the capacities of various real world objects. |
| **Capacity** | Click on the capacity of this object. | |
| **Measure the Capacity** | Type the amount of water in each measuring cup. | Measure capacity and volume using standard units. |
| **Test Tube** | Measure the amount of water in each test tube. | |
| **Orange Juice** | Compare the amounts of orange juice in each container. | Measure and compare volumes using standard units. |

## 7 - Mass

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Order the Weights** | Click on the pictures from the lightest to the heaviest. | Estimate and compare the masses of various real world objects. |
| **Guess the Weight** | How much do you think this object weighs? | |
| **Measure the Weight** | How much does this object weigh? | Use a scale to measure mass in standard units. |
| **How Much Does it Weigh?** | | |
| **Heavier or Lighter** | Does this object weigh more than x standard units? | Use a tipping scale to measure whether an object weighs more or less than a given number of standard units. |
| **Choose the Appropriate Unit of Weight** | What is the appropriate unit of measure to measure the mass of this object. | Understand the relationships between different units of measure for mass. |

# Measurement 3

8. Measurement Review

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Measure the Length** | Use the ruler and type the correct length for each object. | Measure length, temperature, weight and capacity using standard units. |
| **Measure the Temperature** | Use the thermometer and type the correct temperature. | |
| **Measure the Weight** | Use the scale and type the correct mass for each object. | |
| **Measure the Capacity** | Use the measuring cup and type the correct volume for each cup. | |

# Measurement 3

9 - Units of Measure

| ACTIVITY NAME | INSTRUCTION | REQUIRED SKILLS |
|---|---|---|
| **Equal Measurements** | Match the measurements in the left column with an equal measurement in the right column. | Understand the relationships between units of measure and compare different measurements. |
| **Match the Units** | Press the spacebar when you the measurement on the left equals the measurement on the right. | |
| **Click the Biggest** | Click on the largest unit of measure for each set. | |
| **Which is the Longest Measurement?** | Click on the longest measurement. | |
| **Symbols** | Match the unit symbols in the right column to the unit in the left column. | Understand the symbols of various units of measure. |
| **How Would You Measure?** | Click in the correct column that matches the unit of measure for each word that you hear. | Understand which unit of measure is used to measure either weight, time, capacity, length, height or volume. |
| **Which Type of Measurement?** | Click on the correct type of measurement (weight, time, volume) that matches the unit word you hear. | |
| **Which Unit Would You Use?** | Choose the best unit of measurement to measure the stated measurement. | |
| **Which is the Appropriate Unit of Measurement?** | | |
| **Fill in the Missing Measurement** | Complete the unit equivalency problem. | Convert a measurement from one unit of measure to another. |