

“5-E” Summative Measurement Lessons-3rd Grade

Engage:

Card Sort Task: Using the *Tools, Attributes, and Units of Measure* components on the Pre-Assessment/Post Formative Assessment, students will sort cards according to their similarities (Run attached cards on cardstock.).

Scientists Meeting: Students should be allowed to explore www.exploratorium.com after teacher set up, regarding measurement activities.

Explore:

Conceptual Cartoon/ Think Pair Share: Students will use the 4-box cartoon template to create a cartoon for each of the following topics: Volume/Capacity/Mass/Weight, Time/Temp, Length, and Money.

Explain:

Labeled drawing/Meaningful Paragraph: Student will draw and label a measuring tool. Students brainstorm a scenario with the measuring tool they chose to label, and write a meaningful paragraph with appropriate vocabulary to explain how the measuring tool could be used.

Elaborate:

Predicting: Students will use magazines and newspapers to find evidence of the four topics listed in the “Explore” category above. Students will choose between creating a data-table and graph, or creating a “What If” scenario for the audience using the information regarding the measurement topics found in the printed material.

Evaluate:

Students choose one of the following options.

Self-evaluation:

Students are given the Pre/Post Summative Assessment on Measurement and allowed to make a self-evaluation for themselves using the measurement terminology included on the given assessment. The Student Self-Evaluation should include short answer, open-ended, multiple-choice and vocabulary

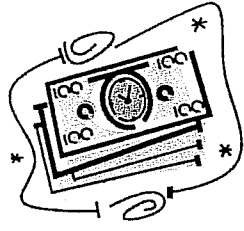
review, such as: matching, word banks, and fill in the blank. The teacher should provide prompts such as: "Before I thought _____; now I think _____," or "I could have done better if I had _____." The number of questions created is determined by the teacher.

Presentation:

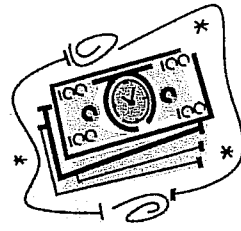
Using "Movie-Maker" students will work in groups of 3-4 to create a news-broadcast similar to one they would see on television. Students should choose one or more of the four topics listed above in the Explore category to create their broadcast. Students may take real- life pictures to display, create posters, or scenarios showing understanding of concepts learned. For example, the Time and Temperature concept could include a weather broadcast. An economics broadcast could include data- tables, graphs, or Active Board flip-charts reflecting the Money topic. Students would interview and/or use previous data collected from printed or researched material regarding: allowances, spending, saving, etc.

| | | | |
|-----------------------|-------------|------------|-----------|
| Wooden Cube | Temperature | Inch | Hour |
| Ruler | Volume | Feet | Day |
| Thermometer | Celsius | Foot | Week |
| Balances | Fahrenheit | Yard | Month |
| Scales | Cents | Mile | Year |
| Clock | Nickels | Cubic Unit | Ton |
| Coins | Dimes | Milligram | Minute |
| Dollars | Quarters | Gram | Kilometer |
| Graduated Cylinder | Dollars | Kilogram | Inch |
| Mass | Millimeter | Milliliter | Time |
| Weight | Centimeter | Liter | Length |
| Capacity | Decimeter | Ounce | |
| Money | Meter | Pound | |

Engage: Card Sort



Money

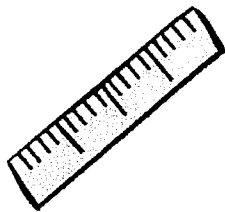


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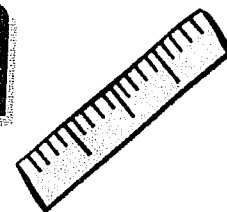
Be sure to use at least 4 words from the word box in your cartoon.

Word Box

| | | | | |
|-------|----------|---------|-------|---------|
| Coins | Dollars | Money | Cents | Nickels |
| Dimes | Quarters | Dollars | | |



Length

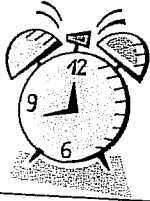


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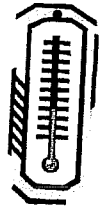
Be sure to use at least 4 words from the word box in your cartoon.

Word Box

| | | | |
|------------|------------|-----------|-------|
| Millimeter | Centimeter | Decimeter | Meter |
| Inch | Foot | Yard | Mile |
| Length | | | |



Time/Temperature



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Be sure to use at least 4 words from the word box in your cartoon.

| Word Box | | | |
|-------------|-------|-------------|------------|
| Thermometer | Clock | Temperature | Fahrenheit |
| Celsius | Hour | Day | Week |
| Month | Year | | |

Volume/Capacity/ Weight/Mass



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|--|--|
| | |
| | |

Be sure to use at least 4 words from the word box in your cartoon.

Word Box

| | | | |
|-------------|--------------------|------------|--------|
| Wooden Cube | Graduated Cylinder | Mass | Weight |
| Capacity | Volume | Milliliter | Liter |
| Ounce | Pound | Balances | Scales |