

Money, Money, Money



You have been assigned to work with a design committee to create a new denomination of coin or bill. Your task is to complete the following tasks as you prepare to release the newest denomination within the year.



- a) Determine which new denomination of coin or bill would be useful to the public.
- b) Create a name for this new denomination.
- c) Explain why this new denomination would be beneficial to consumers.
- d) Select a person to appear on the front of the new coin or bill. This person should be a figure from history who had a positive impact. Explain why this person should appear on a unit of currency.
- e) Design the new coin or bill and how it would look.
- f) Unveil the new design for your classmates. Show ten ways it can be combined with other denominations to make change (for example if you invented the nickel, $\$1.00 + \text{a nickel} = \1.05).

Draw it to Scale



You have been hired by the Scholastic Architectural Firm to design a new classroom. Your job is to draw the design of your state-of-the-art classroom, complete with tools that you think will be useful for students in your class or grade. For this, you are asked to do the following:

- a) Design a floor space for your classroom on a regular piece of white paper. Explain the scale of your drawing (for example 1 inch (1 cm) in your drawing might equal 1 foot (1 meter)).
- b) Identify the area and perimeter of the classroom you have designed.
- c) Add at least three pieces of furniture to your classroom (you do not need to put student desks in your design, but do need to have an area for it). Label the furniture and draw it to scale.
- d) Draw three educational tools that will be incorporated in the floor design. Label the items and draw it to scale.
- e) Explain why your new classroom would be an innovation over current classrooms.
- f) Add the scale to your drawing.

Time's Up



For this task you will need either a stopwatch or a clock with a minute hand. Your job is to work under the supervision of an adult and to determine a task that everyone in a small group might be able to do (recite a poem, read a passage from a story, do the twelve times table). After you do this:

- a) Time each person in your group performing the task. Record the times on a piece of paper. Denote the number of minutes and/or seconds it takes. This is called the first trial.
- b) Complete the task again now that all members have done it once. This is called the second trial. See how the times change now that each group member has some practice.
- c) Place the times onto a double bar chart representing each participant so times can be compared. Place the names in order from shortest to longest based on the times during the second trial.
- d) Make a list of at least ten observations about the difference in times on the chart from the first trial to the second trial.
- e) Summarize your findings and share them in class.