Introduce scale drawings:

- What is a scale drawing?
- What are scale drawings used for? What people/professions use them?

GOAL: Produce a scale drawing of your cartoon 64 times larger than the original one.

## PROCEDURE:

- 1. Select cartoon. The "cell" should be no longer than 3.5 inches to properly fit on the poster board. Sunday comics work best since they are color. There are many Calvin & Hobbes (or Peanuts or Garfield) books available at bookstores that work very well.
- 2. Photocopy the original comic so everyone can remember the order the cells go in once finished.
- 3. Each student gets one (or two if they are small) cells from the original comic. If a group is working to complete one entire comic, it may be a good idea upfront to determine which cells are not as necessary. That way the finished comic still makes sense even if you don't use all the cells.)
- 4. Tape the cutout cell on a piece of computer paper.
- 5. Grid the original cartoon.
  - What size grid should we use? What if it is too big/too small? (Use ¼ in. for the cartoons)
  - Using a ruler place equidistant marks across the top and bottom and connect them with lines. Place equidistant marks across the sides and connect them with lines.
- 6. Grid the construction paper.
  - What size grid should we use? What if it is too big/too small? (Use 2 in. for the poster board)
  - Using a ruler place equidistant marks across the top and bottom and connect them with lines. Place equidistant marks across the sides and connect them with lines.
- 7. Copy box for box. The students need to place their SCALE somewhere on the new drawing to indicate to others how it compares to the original (i.e. Scale: ¼ in.= 2in.) Cut out any extra boxes around the comic.
- 8. Color with markers, etc. A good idea is to have the first students who color to start listing the colors they use on the board so that the whole group will use a common set of colors for items that are the same.
- 9. Tape the original cartoon somewhere on the front of the poster board.
- 10. Grade is based on both neatness and accuracy.

Activity:	Creating	a Scale	Drawing
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Name:

What is a scale drawing? What are scale drawings used for? What people/professions use them?

**GOAL**: Produce a scale drawing of a cartoon \_\_\_\_\_ times larger than the original one.

## **PROCEDURE**

- 1. Grid the original cartoon.
  - Starting at the top, left corner, place marks every \_\_\_\_ across the top.
  - Starting at the bottom, left corner, place marks every \_\_\_\_ across bottom.
  - Connect the top marks and the bottom marks with lines.
  - Starting at the top, left corner, place marks every \_\_\_\_\_ across the left side.
  - Starting at the bottom, left corner, place marks every \_\_\_\_ across right side.
  - Connect the left and right marks with lines.
- 2. Grid the poster board.
  - Repeat above procedure with marks every \_\_\_\_\_.
- 3. Copy each box on the original to each box on your poster board.
- 4. Place the SCALE somewhere on the new drawing to indicate to others how it compares to the original (i.e. Scale: ½ in.= 2 in.)
- 5. Color with markers, etc.
- 6. Tape the original cartoon on the front side of the poster board.
- 7. Grade is based on both neatness and accuracy.