Week 5, Day 1

1. List at least five descriptive words that tell about the screw.

2. How is a screw made?

3. What are some uses for screws that you can see around you?

Week 5, Day 2

Use a ruler to draw a diagonal line on the rectangle and cut along the line. Each partner should have a right triangle. Color a dark line (about 1 cm wide) along the cut edge of the triangle. What kind of simple machine does this triangle look like? _______________ Put your thumb on the line at the bottom. Rotate the pencil, keeping your thumb on the line. What happens? _______________ What kind of simple machine did you make? _______________ A screw is really an __________________________ wrapped around a ____________________________.

Week 5, Day 3

1. Pull straight up on the middle of the spiral. What simple machine does this look like? _______________

2. Have you ever seen an inclined plane that looks like this? _______________

3. Why might this special kind of inclined plane (a screw) be used instead of a regular inclined plane? _______________

4. Would you rather ride your bicycle straight up the side of a mountain or follow a spiral road like the threads of a screw up the mountain? _______________
A screw is an inclined plane that has been wound in a spiral around a cylinder. If you follow the thread from the tip of a screw, you will see an inclined plane constantly curving upward around a central shaft. Like other inclined planes, it is a simple machine that reduces the effort needed to complete a job. With the screw, as with other simple machines, you do a little work over a long distance so that the machine can do a lot of work over a short distance. A screw has many practical applications. It is used to hold materials together; it opens and closes nearly all vises. A screw is also used in drilling tools. In the form of a propeller, a screw can even help produce motion in a boat or an airplane.

1. What is a screw?
   A. A type of force
   B. A cylinder
   C. A special type of pulley
   D. A special type of inclined plane

2. In this selection, the word applications means--
   A. uses
   B. sizes
   C. simple machines
   D. materials

**Week 5, Day 5**

Draw to show two places that you found screws holding things together. Write to tell what is held together.