



Victorian Time Traveler Engineering Activity – Magic Wheel

Materials:

Animation worksheet

Pencil

Colored Pencils or markers

Glue Stick

Small wheel template

Large wheel (manila folder material)

Scissors

Thumbtack

Pencil with eraser

Mirror

1. Use animation worksheet to create 8 drawings, or “frames,” showing small changes over time. Number them 1-8 from left to right.
2. Number the slices of the small wheel template 1-8, going clockwise.
3. Transfer, or re-draw these frames in the slices of the magic wheel, keeping them in order and keeping the common elements as similar as possible.
4. Add color!
5. Glue the small wheel in the center of the large wheel using the glue stick.
6. Snip 8 “pie lines” on the big wheel. Make sure to make two snips on each line, creating a space big enough to see through.
7. Push thumbtack through the center of the big wheel and into the eraser of the pencil, leaving a small amount of room for the wheel to spin.
8. Test spin!
9. Look through snips at mirror image while wheel is spinning.