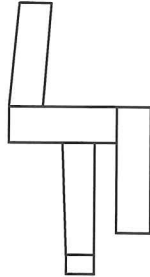


2. Whirly-gig similar to the maple seed (helicopter).

Construction

- a. Take a strip of paper about 2 inches wide by 8 inches long and hold it vertically
- b. Rip from the top in the center about  $\frac{1}{3}$  of the way down and fold pieces with a crease opposite directions
- c. About  $\frac{1}{2}$  way down rip parallel to the floor about  $\frac{1}{3}$  of the way to the center and fold and then  $\frac{1}{3}$  of the way from the opposite side and fold so you end up with a post in the center
- d. Can fold up about a centimeter on the bottom so the bottom doesn't catch air as the whirly-gig falls.



Now stand and drop your whirly-gig and note what happens? Spins

Can you do something to the whirly-gig to make it twirl the opposite way? Fold arms opposite directions.

What if you throw the whirly-gig away from you, what happens?

Note: Maple seeds twirl so they can rotate into the ground for more success growing. They also twirl to make them stay in the shade under the tree.