

Name: _____



Date: _____

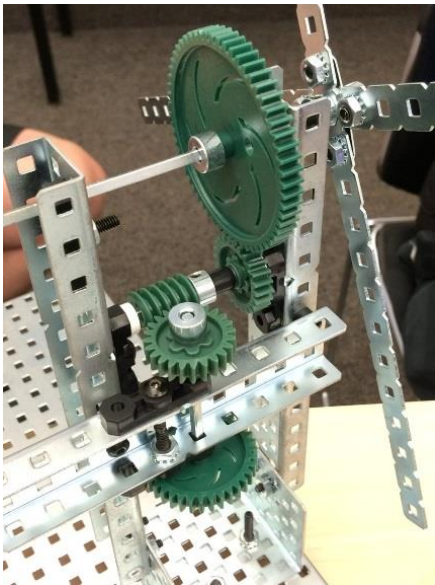
Windmill Construction Project

Per: _____

As you know from science class, a windmill converts wind **energy** to a useful mechanical energy. One real-world use of a windmill is to grind grain into flour. The rotary movement of the sail, turned by the wind, changes the direction of motion by 90° .

Procedure! Using your knowledge of the **mechanisms** recently built in class, design and build a windmill that satisfies the following:

- a change in direction of motion by 90°
- a different **input/output** speed relationship
- your structure must be stable, rigid, and must hold the **gears** in proper relationship to each other
- you may NOT use a chain drive
- you must decorate your windmill (it must have a theme)!
- you will present your windmill to the class explaining how it works



Who I will be working with:

- 1.
- 2.
- 3.

Theme for our windmill: _____

Windmill Planning

Some mechanisms/pieces I know I will need for my windmill construction (list at least 8):

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-
-
-
-
-
-
-
-

Sketch of my windmill:

Mr. Valentino initial _____