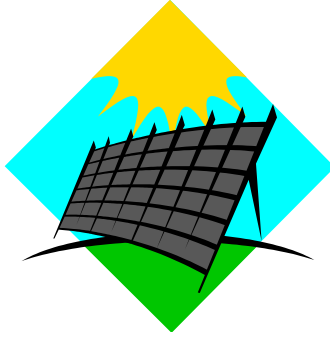


## Part 14: Introduction

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Designing and Engineering a Faster Water Pump



### Introduction

Today you will again be making a solar powered water pump. However, this time you will use all the materials from the last experiment to design and engineer a pump that can pump 1 cup of water the fastest. You must work as a team to really be successful.

### Materials you will have available to use:

- 2 1.5 volt solar cells
- 1 electrical water pump
- Holders for solar module
- 4 mirrors
- 2 smaller plastic tubs, 1 full of water
- 2 Additional alligator clip wires
- 1 stopwatch or timer

### Rules:

- You must work as a team and listen to all ideas.
- You must build one design to test, then build a second design to test
- You can use any of the materials listed above, but don't have to use them all.
- You must report out your data and analysis to the class