

Windmill Blade Design - Volunteer Instructions

Experiment Set-up:

Each individual will get two paper plates to make the fan blades and paper straws that will be used to attach the blades to the set up. There will be four windmills with multimeters set up to measure generated voltage.

Experiment Instructions:

Students will design their fan blades and cut them out using scissors. They will then tape the paper straws to the back of the blades. They will then put the blades on the windmills and we will turn on the box fan to begin generating power. The person with the highest voltage will be determined as the winner.

Materials

- 2 paper plates
- Paper straws
- Scissors
- Tape

During the Experiment:

Students will not be allowed to look up designs on their devices. Students must also not change the settings on the box fan or their entry will be removed.