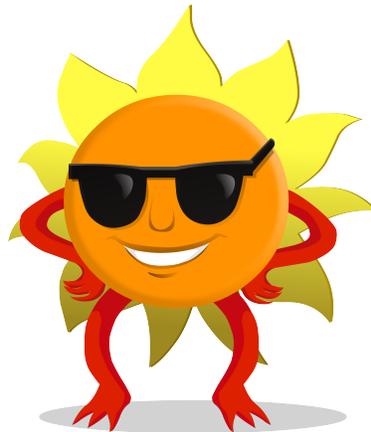




## #4: Wind Power!

### Materials Needed:

- Assorted recycled materials
  - Paper cups/plates
  - Bottles
  - Cups
  - Cardboard/Paperboard
  - Lids
  - Plastic containers
  - Etc...
- Scissors
- Masking tape
- Pennies/Dice/Something that would provide a bit of weight
- A box fan
- A smooth flat surface



*“Sammy Sun is the name. I don’t want to brag, but I’m a pretty powerful guy. Did you know that the uneven heating of Earth’s surface (by the sun!) causes wind? That’s right—I even make wind! Wind is an incredible resource that we can use for all kinds of things! Whether it’s flying a kite or powering the electricity for an entire building—wind is here to help us, and it isn’t going anywhere!”*

*“We’re starting this Science Bite with a challenge! Imagine you’re on a camping trip and you don’t want to carry all your equipment. Luckily, your camping trip is somewhere that there is a LOT of wind! Use that power! Can you create a contraption that can hold weight (pennies/dice) and move just using the power of the wind?”*

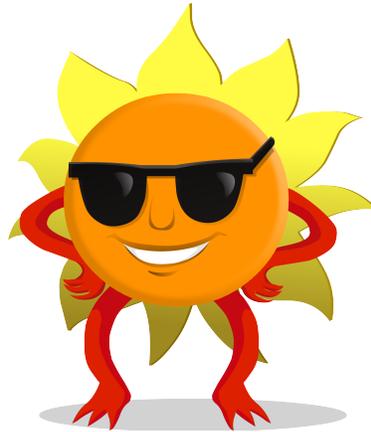
### **Wind Power experiment:**

- Set up your box fan so that it is blowing onto a smooth flat surface

- Start exploring the recycled materials—what properties do you need your materials to have so they can be moved by wind? Test some with the fan
- Build a contraption!
- Try it out using the fan for power
- Add some weight—does your contraption still work?!

### **Why is Wind Power important?**

Wind is a renewable resource! That means that, unlike some forms of energy—like gasoline, we won't run out of it! There will always be wind—so the more we learn to harness its power and use it, the less we'll have to rely on non-renewable resources. It's better for the earth, too!



*“So how did you do? Do you think wind power and other renewable resources are the way of the future? Take some time and look up some other renewable resources, I don't want to point you in one direction or another—but I hear solar power is where it's at!”*

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