



Interactions of Earth's Spheres Activity for Kids



Recycled Racer DIY

 Duration: **30-60 min**

 Difficulty: **Medium**

 Cost: **\$0 to \$5**

Use recycled materials to make a cardboard racer!

Material List

- 1** Piece of cardboard
- 1** Wooden skewer with tip cut off
- 1** Pair of scissors
- 1** Roll of duct tape
- 2** Washers
- 2** CDs
- 1** Ball of poster putty
- 1** Large rubber band

Instructions

- 1** Cut a notch in one end of the cardboard about 2 inches wide and 2 inches deep.
- 2** Slide the skewer through the notch.
- 3** Wrap a small piece of tape around the middle of the skewer (inside the notch).
- 4** To make a wheel, put a washer in the center of the CD and slide it onto the skewer.
- 5** Using poster putty, secure both sides of the washer/CD tightly to the skewer.
- 6** Repeat step 4 & 5 for the other wheel.
- 7** Tape the rubber band to the center of the cardboard.
- 8** Stretch the rubber band around the tape on the skewer.
- 9** Wind it around the axle by spinning the wheel/axle combo.
- 10** Let go and watch your racer go!

How It Works

Using recycled materials, you have harnessed the power of the energy in a stretched out rubber band to move the car. The energy stored in the rubber band spins the skewer and wheels as it unwinds, propelling the car forward. The tighter the rubber band is wound, the further your car will go. By recycling materials, you are helping the geosphere, biosphere, atmosphere, and hydrosphere!

