

# Supply List Weather and Climate Across the Globe

Most of the write-ups will list a website or store where we found the hard to get parts, but our sources change each year. This is the most updated list as of May 2015.

## Monday AM Activities

### **What do the infrared thermometers measure?**

- IR thermometers: [www.amazon.com](http://www.amazon.com)
- Smaller Non-contact pocket Infrared thermometer: [www.harborfreight.com](http://www.harborfreight.com)

### **Energy & Radiation**

- Rainbow glasses:
  - [www.rainbowsymphony.com](http://www.rainbowsymphony.com)
  - [www.3dglasesonline.com](http://www.3dglasesonline.com)
- IR Goggles:
  - Pyramex welding goggles with stationary lenses [www.fullsource.com](http://www.fullsource.com)
  - IR plastic or gels for goggles: The IR plastic is listed in the write-up.
    - More affordable is to order two theatre gels (Palace Blue and Blood Red) and layer them together in the goggles [www.stagespot.com](http://www.stagespot.com)
- Ceramic IR bulbs (Zoo Med ReptiCare) [www.amazon.com](http://www.amazon.com)

### **How does the atmosphere keep the earth warmer?**

- Four identical pieces of glass (You can use glass from the same size picture frames or have it cut at a glass store. Spray one side of one glass pate with flat black paint.)
- 4 clear rubber feet on the bottom of each piece of glass as spacers: [www.uline.com](http://www.uline.com)

## Tuesday AM Activities

### **If hot air rises, why is it cold in the mountains?**

- Tire valve to fit in cap of bottle (Tire stores or Ace Hardware)

### **How Can Freezing Make Something Warmer?**

- Sodium acetate reusable hand warmer
  - [www.amazon.com](http://www.amazon.com)
  - [www.thinkgeek.com](http://www.thinkgeek.com)

## **Tuesday PM Activities**

### **Force Balance and Coriolis Effect**

- Hover pucks: [www.amazon.com](http://www.amazon.com)
- *Show Me Some Science* Microburst podcast: <http://www.lsop.colostate.edu/2015/03/13/show-me-some-science-microbursts/>

## **Wednesday AM Activities**

### **Small scale spin tanks**

- Round stepping stone pan (hobby/craft stores)
- Turntable display, 7": [www.amazon.com](http://www.amazon.com)

### **General Circulation**

- One large inflatable Earth: [www.herffjones.com](http://www.herffjones.com)

## **Wednesday PM Activities**

- Wedges Light
  - Full game can be viewed at: <http://cmi.princeton.edu/wedges/>