



## **INFRARED RADIATION: Resources and Activities for Educators**

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### **Active Astronomy kits**

SOFIA-developed resource (teacher kit) supporting classroom activities regarding understanding, detecting, and transmitting infrared light:

- <http://www.sofia.usra.edu/Edu/materials/activeAstronomy/activeAstronomy.html>

### **Spectroscopes**

Stanford Solar Center: Activities, ppt slides, videos, study guides:

- <http://solar-center.stanford.edu/activities/cots.html>

### **Resource Area for Teaching (RAFT) items regarding light, color, EM spectrum**

- <http://www.raftbayarea.org/ideas/Colors%20of%20Light.pdf>

### **Electromagnetic spectrum overview, and investigations from the Exploratorium using a telescope-grade concave mirror**

- <http://www.exploratorium.edu/tv/index.php?project=90&program=946>
- <http://www.space-exploratorium.com/electromagnetic-spectrum.htm>

### **Herschel experiment (recreating discovery of infrared light)**

- [http://coolcosmos.ipac.caltech.edu/cosmic\\_classroom/classroom\\_activities/herschel\\_experiment.html](http://coolcosmos.ipac.caltech.edu/cosmic_classroom/classroom_activities/herschel_experiment.html)

### **Infrared images and NASA mission information**

- [http://coolcosmos.ipac.caltech.edu/cosmic\\_classroom/classroom\\_activities/herschel\\_experiment.html](http://coolcosmos.ipac.caltech.edu/cosmic_classroom/classroom_activities/herschel_experiment.html)
- [http://missionscience.nasa.gov/ems/07\\_infraredwaves.html](http://missionscience.nasa.gov/ems/07_infraredwaves.html)

### **Thermochromatic film and other materials**

- <http://www.teachersource.com/category/chemistry-lc>

### **Infrared-transparent acrylic sheets (ACRYLITE® IR acrylic 11460)**

- [http://www.eplastics.com/Plexiglass\\_Acrylic\\_Sheet\\_Infrared\\_Transmitting](http://www.eplastics.com/Plexiglass_Acrylic_Sheet_Infrared_Transmitting)

### **Infrared cameras, including models that connect to iPhones**

- <http://www.flir.com/home/>
- <http://www.thermal.com/>