

# Remote Sensing Using NASA Website

**Time:** 30 minutes

**Standards:**

I/E 1a: Select/use appropriate tools/tech to collect data

**Topical Objectives:**

Allow students to make a concrete association between scientific knowledge about planet Earth and how modern knowledge is importantly based on remote sensing technologies, particularly satellites sensing across electromagnetic frequencies.

**Materials:**

Computer & video downloaded to Hard Drive or on a disc.

**Preparation:**

Computer Stations set-up for student work groups

**Science Notebook Ideas:**

Cornell video notes: 10 notes minimum

**Procedure:**

1. In a student group of 2-4
2. Watch video and take notes
3. Write summary based on notes
4. Students discuss the role/possible importance of satellite remote Earth sensing
5. Record ideas in notebook
6. Students discuss the role of the electromagnetic spectrum in remote sensing
7. Record ideas in notebook
8. Student groups report out

**Extensions:**

Students may wish to go to websites for specific remote sensing NASA satellites and report back on that satellite and its mission.

**Synthesis:**

Practical application of the electromagnetic spectrum from space based platforms that are collecting Earth data.

**Sources:**

<http://svs.gsfc.nasa.gov/>

Under featured items click on "Narrated Movies"

Scroll down to "2674 Remote Sensing: Observing the Earth"

Save the video to disc.