Nature-Watch Activity Kit

Weather Window

Weather Window Kit Contents

	Kit Size		
	1	***25***	***100***
Item:	Quantities:		
Window Frames	1	25	100
Cloud Photo Sets	1	25	100
Craft Sticks	1	25	100
Glue	0	1	2
Instructor Manual	1	1	1

This page includes the Next Generation Science Standards (NGSS) mapping for this kit and a Science, Technology, Engineering, and Math (STEM) chart (on back) to use in adapting and extending this activity to other subject areas. The NGSS mapping and STEM chart are brought to you by Resource Area For Teaching (RAFT) in partnership with Nature-Watch.

Nature-Watch and Resource Area For Teaching (RAFT) are both dedicated to providing the best in hands-on experiential teaching resources for educators and their students.

For more information visit:
www.nature-watch.com *and*
www.raft.net

Next Generation Science Standards Alignment

K-ESS3-2:
Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.

3-ESS2-1:
Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.

5-ESS2-1:
Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.

MS-ESS2-4:
Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.

See Back for STEM Chart

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Weather Window

Science

- Identify wind direction and predict weather conditions in an area based on the cloud type approaching that area
- Create a list of common features for each cloud type on the device

Technology

- Visit http://scied.ucar.edu/webweather/clouds/cloud-types to learn more about various cloud types
- Create a slide presentation on extreme weather conditions associated with cloud types, including visuals like photos and video

Engineering

- Develop a method for attaching a camera to the device so that photos of the viewing window can be taken
- Build a structure with minimal materials that can keep an area of 10' x 10' dry in rainy weather.

Math

- Visit http://sciencenetlinks.com/lessons/measuring-cloud-coverage/ for an activity on measuring cloud coverage
- Visit http://www.makinglearningfun.com/themepages/WeatherMathIdeas.htm for math activities on clouds and weather