

Important! To return to the lesson, **you must** select **Quit** from the File pull-down menu.

Books

Significant Tornadoes-1680-1991. Grazulis, Thomas. Environmental Films, St. Johnsbury, VT 05819, 1993 (also *Significant Tornadoes, Update-1993-1995*) available from The Tornado Project Online <http://www.tornadoproject.com/>

Includes the top 10 tornadoes, shelter information, tornado history, information on the Fujita Scale, and oddities connected with tornadoes.

Web Sites

Virtual field trip of tornadoes

<http://www.field-trips.org/tours/sci/tornado/ tourlaunch1.htm>

The National Weather Service fact page on tornadoes includes graphics and links to other sites.

<http://www.nws.noaa.gov/er/cae/svrwx/tornado/tornado.htm>

Search the Building and Fire Research Laboratory (part of the National Institute of Standards and Technology [NIST]) site for "tornado" to see a list of articles on tornado damage.

<http://www.bfrl.nist.gov/top/Search.htm>

National Science Content Standards

Content Area	Standards
Earth Science	A9, A10
Science in Personal and Social Perspectives	C1, D1, D2, E2, E4, E5, E7
History and Nature of Science	A1, A2, B3

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Materials		
Activity	Material	Amount
Weather In a Box	Clear plastic box or aquarium	1 per group
	Plastic cups	3 per group
	Scissors or other device to put holes in cups	1 per group
	Tape (masking or duct)	per group
	Food coloring (blue or red)	per group
	Ice	per group
	Stopwatch or other timing device	1 per group
	File folder for portfolio	1 per group
	Other experimenting materials as needed	varies
	Water (hot)	per group
	Video recorder or chart materials	per group
Daily Weather Map	Daily weather maps (1 week of from local paper)	1 per group
	Outline maps of the U.S.	2 per group
	File folder	1 per group
RADAR Spelled Backward Is	Paperboard (posterboard, tagboard, or file folder)	1 per pair
	Tape	per pair
	Transparency	1 per pair
	Ruler	1 per pair
	Colored pencils	per pair
	Compass (for drawing)	1 per pair
	Scissors	1 per pair
	Stapler	1 per class
	Nonpermanent transparency marker	1 per pair
	Permanent marker	1 per pair
	Sample sequence of radar views**	1 per pair
Videotape player/recorder (optional)	optional	
Make the Code, Break the Code	Discovery File "Weather Station Symbols"*	1 per student
	Surface Observations 3:00pm**	1 per group
	List of narrative weather observations*	1 per student
	Blank map**	1 per student
A Hot Dip on a Cold Day	Container (large, rectangular, with clear sides)	1 per group
	Aluminum pie pan	1 per group

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	Hot water	per group
	Small rocks (frozen, in 2 or more small plastic bags)	per group
	Candle	1 per group
	Matches	per group
Wind Insurance	Discovery File "Tornado Data by State"*	1 per student
	Map of the U.S.	1 per pair
	Cardboard	1 per pair
	Colored pencils	per pair
	Ruler	1 per pair
	Graph paper	1 per pair
	* denotes something is found in the student book	
	** denotes something is found in the teacher book	

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