**Satellite maps**  
MAP: [United States satellite picture](http://www.usatoday.com/weather/satpic/wsatusa.htm)  
BACKGROUND: [Satellites give bird's-eye view of clouds](http://www.usatoday.com/weather/wsatwork.htm)

1. What do satellite images show? Why is this information important?
2. How do we get satellite images? How do satellites travel?
3. What can meteorologists learn by the shade of the clouds on a satellite image?

Other helpful sites:  
[Weather](http://www.learner.org/exhibits/weather/index.html) [Meteorology A to Z](http://www.wxdude.com/topics.html)

[Weather Basics](http://www.usatoday.com/weather/basics/wworks0.htm) [NWS](http://www.weather.gov/)

**Radar maps**  
MAP: [North America Radar Image](http://www.cnn.com/WEATHER/NAmerica/radar_image.html)  
BACKGROUND: [Understanding weather radar](http://www.usatoday.com/weather/wearadar.htm)

1. What does radar show?
2. How do you use the map key on a radar map?
3. How do we get radar images?
4. What are some of the limitations of radar maps?

Other helpful sites:  
[Weather](http://www.learner.org/exhibits/weather/index.html) [Meteorology A to Z](http://www.wxdude.com/topics.html)

[Weather Basics](http://www.usatoday.com/weather/basics/wworks0.htm) [NWS](http://www.weather.gov/)

**Precipitation maps**  
MAP: [Precipitation](http://www.usatoday.com/weather/wrain.htm)  
BACKGROUND: [Precipitation: hail, rain, freezing rain, sleet and snow](http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/mtr/cld/prcp/home.rxml)  
[Precipitation definitions](http://www.usatoday.com/weather/wds8.htm)

1. What is precipitation?
2. What are some examples of precipitation?
3. Define the different types of precipitation on the map.
4. What causes different types of precipitation?

Other helpful sites:  
[Weather](http://www.learner.org/exhibits/weather/index.html) [Meteorology A to Z](http://www.wxdude.com/topics.html)

[Weather Basics](http://www.usatoday.com/weather/basics/wworks0.htm) [NWS](http://www.weather.gov/)

**Temperature maps**  
MAPS: [North America Temperature Forecast](http://www.cnn.com/WEATHER/NAmerica/region_map.html)  
[U.S. Current Temperatures](http://www.weather.com/maps/maptype/currentweatherusnational/uscurrenttemperatures_large.html)  
BACKGROUND: [More to temperature than you might think](http://www.usatoday.com/weather/whattemp.htm)

1. What is temperature? (For the clearest definition, see the “Weather terms” chart in the background article.)
2. What are the two most important factors in temperature?
3. Why is it usually cooler at night?
4. Why does temperature change during the seasons?

Other helpful sites:  
[Weather](http://www.learner.org/exhibits/weather/index.html) [Meteorology A to Z](http://www.wxdude.com/topics.html) [Weather Basics](http://www.usatoday.com/weather/basics/wworks0.htm) [NWS](http://www.weather.gov/)

**Wind-speed maps**  
MAP: [Current Winds](http://www.weather.com/maps/maptype/currentweatherusnational/uscurrentwindsgusts_large.html)  
BACKGROUND: [Pressure differences give wind its push](http://www.usatoday.com/weather/wpress.htm)

1. Explain the main cause of winds.
2. Why are some winds stronger than others?
3. How does wind affect the weather?
4. How are winds named?

Other helpful sites:  
[Weather](http://www.learner.org/exhibits/weather/index.html) [Meteorology A to Z](http://www.wxdude.com/topics.html)

[Weather Basics](http://www.usatoday.com/weather/basics/wworks0.htm) [NWS](http://www.weather.gov/)

**Front maps**  
MAP: [Current Surface](http://www.weather.com/maps/maptype/currentweatherusnational/index_large.html)  
BACKGROUND: [This morning's storms, fronts map](http://www.usatoday.com/weather/fronts/wtdfrontam.htm)

1. What is a low-pressure system? What is a high-pressure system? What kind of weather does each typically bring?
2. What is a cold front? What is a warm front? What types of weather does each typically bring?
3. Explain how the map key shows each of the terms above.

Other helpful sites:  
[Weather](http://www.learner.org/exhibits/weather/index.html) [Meteorology A to Z](http://www.wxdude.com/topics.html)

[Weather Basics](http://www.usatoday.com/weather/basics/wworks0.htm) [NWS](http://www.weather.gov/)