



## Science Exploration Schedule Grades 3 & 4 Weather Unit



### Reading Material

1. Abeka grade 4 science text Understanding God's World
2. Abeka grade 5 science text Investigating God's World

Please note: Page numbers listed in **green are from the 1990 edition** of Investigating God's World, **numbers in red are the 1999 edition**. I do not have a copy of the most current copy of IGW—please see topics for the week to determine the page numbers.

Page numbers listed **in green for Understanding God's World are the 1989 edition**. **Numbers in red are for the 1998 version**. Numbers **highlighted in yellow** are for the 2009 edition.

1/10/11

### Review Games

There is no homework in preparation for class today

Games will cover material that we studied first semester on trees & human body

**Reports:** Students should choose a topic for their weather report (see handout) and sign up in class today. Please choose a second and third choice in case your first choice is taken. By choosing different topics students can learn about many kinds of weather from each other.

1/17/11

Weather Unit Begins today

Water Vapor: The Key to Weather

### Prior to class:

**Read:** Investigating God's World, 5<sup>th</sup> grade (IGW) **p292-295 (299-301)** starting at "the winds"

**Complete:** Comprehension check 7.8 **p297 (303)**

**Hand in:** Comprehension check answers should be written on a sheet of paper to be Checked during class each week of this unit.

**Optional:** Read IGW **p328** beginning with monitoring the weather through **p331 (334-337)**

**Optional Website:** <http://www.weatherwizkids.com/weather-rain.htm>

This resource has many topics that would be great to read during this unit. Don't miss this one!! For fun, check out the weather folklore and weather jokes.

**Classtime:** Making a rain guage & reading temperatures

**After Class today:** Begin researching weather information on your chart

1/24/11

The Water Cycle, Condensation and precipitation

### Prior to class:

**Read:** UGW p **154 -158 (155-159) 120-123** starting at 'water in the air'

**Complete:** Comprehension Check 5.9 p**156 (157) 122** Comprehension check 5.10 **p158 (160) 123**

**Website Resources:** Check out the following website on the water cycle. Neat information and pictures. <http://mbgnet.mobot.org/fresh/cycle/concepts.htm>

Also check out this website on water fun facts:

<http://www.njawwa.org/kidsweb/waterfacts/waterfacts.htm>

**Weather Chart:** Continue researching weather information on your chart

**Classtime:** making an anemometer to measure wind speed

1/31/11

Kinds of precipitation---sleet, snow, hail/ topic of wind is also included

**Prior to class:**

**Read:** UGW 159- top of 160 (160-161) 124-126 / IGW p285--287 (292-294) starting at "the winds"

**Complete:** Comprehension check 5.11 p161 (163) 127 #1-5

**Reports:** Students should be researching their report topic

**Optional:** Read IGW starting with 'the winds' p287-291 (295-298)

**Website Resources:** <http://www.ucar.edu/communications/factsheets/Hail.html>

Check out the article and picture of the largest hailstone ever reported. Amazing!

<http://www.youtube.com/watch?v=NxWbR60tFlg&feature=relmfu> the thunderstorm recipe

[http://www.youtube.com/watch?v=Xk9Lek4QxCh&feature=mfu\\_in\\_order&list=UL](http://www.youtube.com/watch?v=Xk9Lek4QxCh&feature=mfu_in_order&list=UL)

spring flooding

<http://www.youtube.com/watch?v=UB6lONJPKaE> measuring snowfall

<http://www.accuweather.com/en/weather-video/the-life-of-a-snowflake/1688983012>

the life of a snowflake

**Classtime:** Cloud poster & making clouds with dry ice!!!

2/7/11

Clouds, weather forecasting

**Prior to class:**

**Read** UGW p160-163 (161-164) 127-128 & look over IGW p308-309 (314-315) on different types of clouds.

**Complete:** Comprehension check UGW 5.11 p161 (163) 127 #6-8, Comprehension check 5.12 p163 (165) 128 Chapter Check-up C: Answer the questions about the cloud picture p165 (167) **current edition, skip chapter check-up C**

**Reports:** Students should check their report due date/ ½ students due today

**Optional Website:** <http://pbskids.org/dragonflytv/show/forecasting.html>

PBS Video where two students wonder if they can use folklore to predict the weather.

2/14/11

Lightning, thunder, hurricanes, floods, tornadoes, waterspouts

**Prior to class:**

**Read:** IGW 323-327 (329-333)

**Complete:** Comprehension Check 7.12 #6-12 (comp check 8.6 p333 #6-12)

**Reports:** Remaining ½ student reports today & Making Tornadoes

**Optional Websites:** Interested in waterspouts? Check these out:

<http://www.dtmag.com/Stories/Dive%20Weather/09-99-weather&waves.htm>

<http://www.youtube.com/watch?v=pr1gGkykgsW>

youtube video of a waterspout

<http://www.youtube.com/watch?v=MjjwPQRVbWk&feature=related> how tornadoes form



