Student: Kaleigh Narracci Date: 2/11/12

Grade: 6 & 7 Topic: Severe Weather: Tornadoes Content Area: Science

**Instructional Objective**

Objective: After the completion of a class discussion and National Geographic video on Tornadoes, the students will create a Tornado Flip Book and compile a list of facts about tornadoes. The students will write at least three facts about tornadoes on the cover of their Tornado Flipbook.

**Standards and Indicators**

NYS Science Learning Standard #4:

The Physical Setting: Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

Key Idea #2.2p/ P.S. 2.2p:

Students should develop an understanding of Earth as a set of closely coupled systems. The concept of systems provides a framework in which students can investigate three major interacting components: lithosphere, hydrosphere, and atmosphere. Processes act within and among the three components on a wide range of time scales to bring about continuous change in Earth’s crust, oceans, and atmosphere.

Hazardous weather conditions include thunderstorms, tornadoes, hurricanes, ice storms, and blizzards. Humans can prepare for and respond to these conditions if given sufficient warning.

Indicator:

This will be evident when the students create a Tornado Flip Book and compile a list of facts about tornadoes.

General Skills:

Students will follow safety procedures in the classroom and laboratory.

Indicator:

This will be evident when the students create a Tornado Flip Book and compile a list of facts about tornadoes.

**Motivation**

The students will watch the first minute of Little Big Town’s music video “Tornadoes” and be asked to describe the emotion shown.

**Materials**

* SMART Board
* Laptop
* Flipbook worksheet
* Scissors
* Stapler
* Internet: National Geographic video and Music Video

**Strategies**

Direction Instruction: the teacher will deliver notes on tornadoes to the class.

Visual Aids: the students will watch a video about tornadoes produced by National Geographic for Kids and watch a music video clip portraying emotions of an upcoming tornado. These visual and auditory aids will add to the students’ learning experience and address the needs of visual and auditory learners.

**Adaptations**

The children with severe learning disabilities will be given a copy of the PowerPoint on Tornadoes as their notes.

**Differentiation of Instruction**

Tier 1: The students will create a Tornado Flip Book and compile a list of facts about tornadoes using their printed PowerPoint notes.

Tier 2: The students will create a Tornado Flip Book and compile a list of facts about tornadoes. Tier 3: The students will create a Tornado Flip Book and compile a list of facts about tornadoes. Then they will write a paragraph on the destruction that a tornado can cause.

**Developmental Procedures**

* The students receive notes on tornadoes. *(Did you know this about tornadoes? What did you learn?)*
* The students will watch the National Geographic video on tornadoes. *(Would you live in the American Midwest if it was affected by so many tornadoes? Would you be a tornado “chaser”?)*
* The students will create a Tornado Flipbook. *(Do you see how the tornado looks?)*
* The students will compile a list of facts about tornadoes. *(What did you learn? What did you find most interesting?)*

**Assessment**

The students will create a Tornado Flip Book and compile a list of facts about tornadoes. The students will write at least three facts about tornadoes on the cover of their Tornado Flipbook.

**Independent Practice**

For homework, the students will complete a worksheet on “Tornado Alley.”

**Follow-Up: Direct Teacher Intervention and Academic Enrichment**

Direct Teacher Intervention: The student, under direct intervention with the teacher, will compile a list of facts about tornadoes.

Academic Enrichment: The students will create a diagram of a tornado.

**Teacher References**

Bunch, B., & Branca, B. (1987). *Globe earth science*. (2nd ed.). Englewood Cliffs, NJ: Globe Book Company.

Daniel, Rillero, Snyder, & Zike, (2007). *Glencore science: New york science*. New York, NY: McGraw-Hill Education.

Denecke, E. (2008). *Let's review: Earth science the physical setting*. (3rd ed.). Whitestone, NY: Barron's.

Little Big Town. (Performer) (2012). Tornado [Web]. Retrieved from <http://www.cmt.com/videos/little-big-town/852201/tornado.jhtml>

National Geographic Kids. (Producer) (2011). Tornadoes 101 [Web]. Retrieved from <http://video.nationalgeographic.com/video/kids/forces-of-nature-kids/tornadoes-101-kids/>