**Weather and  Climate**

**Lesson # 7 A:**

**Wind**

**This lesson should be taught by the classroom teacher prior to the Williams students coming in.**

**Standards:**

**Objectives: Students will be able to explain how wind causes weather.**

**Connect the water cycle to weather and climate.**

**Explain that clouds look differently and have** different names and can indicate what type of weather we may have.

**Activator: What bring weather  to your area? How does weather get to where you live?**

**Materials and Resources :**

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| **Item** |  |
| **“Wind and Clouds”** | **Hands on Nature Page 293** |
| **Puppets** |  |
| The Cloud Book By Tomie Depaola  |  |

**Introduction:**

Build background  on wind and clouds. Wind can be very strong or it can be a gentle breeze. All  winds are created when warm air rises and expands while cooler dense air flows into replace it.  Winds stir and mix in the atmosphere and pick up moisture as they blow over the earth, forming clouds and carrying them away. Wind and clouds bring us weather as they swirl around the globe.

Winds are results of different temperature on earth due to unequal heating of the earth’s surface by the sun.  Remember how the sun heats up the earth in the water cycle making water evaporate? Well the sun doesn’t heat up the earth equally, this caused wind.

The direction of the wind also affects our weather. North winds tend to bring cold weather and south winds bring warm temperatures. Winds from the northwest,  west and southwest bring good weather, and the northeast, east, and south tend to bring stormy weather. When the direction of the wind changes, so does the weather.

Looking at the clouds in the sky can tell you a lot about the weather. The more ominous the clouds look, the more chance the weather is not going to be good. Students do not need to memorize the cloud types but they should be aware that there are different types of clouds.

People have been looking at the sky for a long time to predict weather and have come up with sayings to help predict the weather. Theses saying are called “weather lore”.

When clouds appear like rocks and towers,

The Earth's refreshed by frequent showers

When the wind is in the east, 'tis neither good for man nor beast.

Teacher Read aloud: The Cloud Book by Tomie Depaola

Class Activity :  Use the puppet show from Hands on Nature entitled “ Wind and Clouds “ on page 293.  Use the puppet show as a readers theatre.

**After Reading:**

**Why did Henry have his eye on the sky?**

**What can looking at the sky tell us?**

**Exit Ticket:  Draw a picture of what the clouds might look like in the sky before it rains.**

**How would you explain to a kindergartener  why we have weather?**