

# Problem-Based Learning Unit Template

## Topic

**Weather (15 days)**

## Goals/Objectives

### Standard 4.6

**4.6** The student will investigate and understand how weather conditions and phenomena occur and can be predicted.

Key concepts include:

- a) weather phenomena;
- b) weather measurements and meteorological tools; and
- c) use of weather measurements and weather phenomena to make weather predictions.

## Theme

**Are You Smarter Than A Meteorologist?  
What Prediction(s) Can YOU Make?**

## Scenario

The **4<sup>th</sup> Grade Team** was asked to decide what would be the best day to schedule the outside “**Big Event**” in the Fall for the school. Your task is to use your **Meteorologist** skills and make a **Weather Forecast** and predict the best day to have the event.

## Culminating Activity

Students in **4<sup>th</sup> Grade** will give the **Weather Forecast** each day as part of the morning announcements. Students will create a **Weather Board** that charts the weather for the school year. Students will also **compare weather in Virginia** with several other states/countries.

## Problem Question

**What Are The Weather Conditions For Today?  
What Is The Best Day To Have Our Outside Big Event?**

## Student Role

Each student will be a **Meteorologist** and create a **Weather Forecast** based on data and observations of clouds and weather conditions outside of school. Students will use information and display on classroom weather map of Virginia and grade level weather chart.