Course Title:	Content Area:	Grade Level:	Credit (if applicable)		
Meteorology	Science	10-12	0.5		

Course Description:

Students in this course learn meteorology by developing an understanding of the multiple factors that lead to weather patterns, weather formation and climate. The major topics of study include: Solar radiation, atmospheric moisture and stability, precipitation, air pressure and circulation, air masses and fronts, and changing climates. This course embeds multiple hands-on and virtual lab experiences to enhance students' knowledge and class experience. Students will be expected to maintain a detailed and scientific weather journal, as well as research weather and climate events and share their findings through projects, models, written and/or oral reports and presentations.

Aligned Core Resources:	Connection to the BPS Vision of the Graduate			
Grade 6 Science-Destructive Weather Physical Science-The Year without Summer	Critical Thinking and Problem Solving			
Additional Course Information: Knowledge/Skill Dependent courses/prerequisites	Link to Completed Equity Audit			

Standard Matrix

District Learning Expectations and Standards	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
HS-ESS2-1. Develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features.						х		
HS-ESS2-2. Analyze geoscience data to make the claim that one change to Earth's surface can create feedback that causes changes to other Earth systems.	х							х
HS-ESS2-4. Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.	х	х		х	х		х	х
HS-ESS2-5. Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes.		х		Х	Х		х	
HS-ESS2-6. Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere								х