

Pictou County Forest School - Grade 10 Lesson Plans

Science: Weather Dynamics

Activity: Expedition: Weather-wise (suggested time: full day activities)

Specific Curriculum Outcomes:

- **STSE: 118-2, 117-6, 114-6** identify and report the impact of accurate weather forecasting from the personal to the global point of view
- **Skills: 214-10, 331-5, 212-1** identify questions and analyze meteorological data for a given time span and predict future weather conditions, using appropriate technologies

Materials:

- Shelter building supplies: tarps, ropes, found natural materials
- Cooking equipment: matches; flint/steel; Trangia alcohol stoves, pots/pans
- Food: water, marshmallows, bannock
- Big white board for expedition planning

Intro/Activation:

Discuss what makes a successful expedition.

- Clothing
- Shelter: What season is it? What is the day's weather forecast?
- Food prep: what style of fire can we create to cook our food? Is it raining? Is it windy? Are there fire bans in effect?

Activity:

1. Students are taken on a small expedition across PCFS to a location pre-determined by PCFS staff and students that meets a set criteria for a successful hike: weather, temperature, sun exposure, wind direction, orientation to compass points for solar gain/mitigation; level of clothing students are wearing etc.
2. Create a shelter relevant to the day's weather.
3. Create fire: Boil water / make tea / food

Reflections/further wonderings: