

Discipline: Science and Technology

Standard Category: Earth Science

Lesson Focus: Climate

PA Standard(s):	Related TESOL Standard(s):
3.5.7C: Describe basic elements of meteorology. Explain weather forecasts by interpreting weather data and symbols.	Goal 2: To use English to achieve academically in all content areas. Standard 2: Students will use English to obtain, process, construct, and provide subject matter information in spoken and written form.

Key Objectives in Accordance with TESOL Level:

Pre-Conversational/ Beginning	Intermediate	Advanced
Students will be able to: <ul style="list-style-type: none">• Identify weather map symbols.• Draw a picture of a described weather scenario.• Place symbols on a weather map.	Students will be able to: <ul style="list-style-type: none">• Verbally name weather map symbols.• Draw a picture of a weather scenario and describe the drawing.	Students will be able to: <ul style="list-style-type: none">• Verbally describe weather map symbols.• Explain a weather map scenario to a peer or an instructor and write an explanation of the map.

Materials:

1. Videotape of a local weather forecast
2. Chalkboard
3. Chalk
4. Overhead projector
5. Overhead of Pennsylvania map
6. White paper
7. Pencils
8. Crayons
9. Weather symbols
10. Map of Pennsylvania

Procedures:

1. Show a five-minute videotape of a local weather broadcast.
2. Create a class idea map of concepts observed in the forecast.
3. Hand out a worksheet of weather map symbols. Read and discuss.
4. Using an overhead map of PA draw symbols on it of current weather conditions.
5. Teacher describes a weather scenario and students draw a picture of the scene.
6. Hand out blank map of PA. Written instructions indicate whether symbols are to be drawn by the students.

Suggested

Level:

Intermediate

Lesson Focus:

Climate

Teaching

Strategies:

Whole group instruction

Teacher-student

Assessment

Strategies:

Observation by teacher

Written responses

Written responses with oral explanations

Assessment:**Beginning**

- Students will draw symbols correctly on a weather map.
- Students will identify weather symbols by pointing to named items.

Intermediate

- Students will tell an evaluator the names of the weather symbols.
- Students will describe a weather drawing to an evaluator.

Advanced

- Students will write an explanation of a weather map.
- Students will discuss the piece with an evaluator.

Notes: Bill Nye, the Science Guy, is a good source for any science topics. Use the local newspaper for weather maps and look in the library for Magic School Bus books.

