

Comprehensive Materials List

Lesson 1: Weather or Climate?

1. Computer and projector (1)

Lesson 2: Climate Change and Alaska

1. Computer and projector
2. Tall plastic soda bottle
3. Glass jar that can fit inside the plastic bottle (2)
4. Thermometer (2)
5. Scissors

Lesson 3: Soils

1. [Soil Testing Kits](#)
2. USDA NRCS [Guide to Texture by Feel](#)
3. Local soil samples in plastic baggies
4. Ordered soil samples
5. [Soil Testing Video](#) and [Soil pH Testing Video](#)
6. Alaskan Soils Worksheet
7. Water
8. Paper towels
9. Plastic gloves(for each student)
10. Safety glasses (or sunglasses)

Lesson 4: Water Quality in Alaska

1. Computer and projector (1)
2. Water Quality Testing PowerPoint
3. Water Quality Testing handout
4. [Stream Discovery Training Series](#) on water quality testing (optional introduction for activity and/or a teacher's guide)
5. Gloves (for each student)
6. Safety glasses (sunglasses suffice)
7. [Water Monitoring Test Kit](#) (classroom kit provides five individual kits)

Lesson 5: Alaskan Farms on the Table

1. Alaskan Farms on the Table handout (1 per student)
2. PowerPoint presentation

3. Dice (1 for every 2-3 students)
4. Farms on the Table instructional video (optional introduction to the game for the instructor)

Lesson 6: Interview

1. Computer and projector (1 for classroom; 1 per student for “Review” section)
2. Copies of the Question List (1 per student)
3. Recording device (1 per student—can be a phone, recorder, or tablet)
4. Notebook (if students would like to take notes during their interview)
5. Computer to write report on interview

Lesson 7: Group Presentation

1. Adaptation Resources for Agriculture in Alaska Handbook
2. Computer for research (required) and for creating a Powerpoint (optional)
3. Poster board (optional)
4. Markers, pens, pencils (optional)