

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)