**Subject:** Elementary  
**Course:** EER  

**Strand:** Weather Detectives

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| (A) Study the earth’s weather and solve a weather related mystery | • Teacher observation – check list  
• Science journal – scoring guide  
• Weather Lore assignment – scoring guide | • “What Is Weather?”  
• Suspect Clues:  
  • Juan Sum Light  
  • Joe Breezy  
  • Ima Vapor  
  • Debbie Drizzle  
  • Bob Blizzard  
  • Global Warming  
  • Videos:  
  • *An Inconvenient Truth*  
  • *Natural Disasters: Natural Disasters & Weather* |

Performance: 1.5, 1.6, 3.5  
Knowledge: (CA) 2,3  
CAGLE: R.1.D-F,H (Gr. 6)  
SCGLE: SC1.1.I (Gr. 7); SC1.2.C (Gr. 7); SC4.1.D (Gr. 6); SC5.1.I (Gr. 7); SC5.2.E,F (Gr. 7)  
NETS: N/A  
DOK: 2,3
### Objectives

#### (B) Use weather related vocabulary for reading related texts, writing, and oral communications

- **Performance:** 1.2, 1.4-1.8, 2.1, 2.3, 3.5, 4.6
- **Knowledge:** (CA) 1-3, 5, 6
- **CAGLE:** R.1.D-H; LS.1.B; LS.2.A; IL.1.B,C (All Gr. 6)
- **NETS:** N/A
- **DOK:** 1-3

### Assessment/Evaluation

- Essay – Global Warming: Improving Our Environment – scoring guide
- Written/oral presentation: My Weather Forecast – scoring guide
- Quizzes:
  - weather vocabulary
  - weather safety

### Instructional Activities

- Weekly weather vocabulary
- Keeping a weather journal
- Readings/background information on:
  - drought
  - weather safety
  - The Dust Bowl
  - moving air
  - wind
  - The Water Cycle
  - tornadoes/lightning
  - hurricanes
  - floods
- Videos:
  - *An Inconvenient Truth*
  - *Natural Disasters: Natural Disasters & Weather*

### Objectives

#### (C) Gather, record, and analyze weather information using scientific investigation

- **Performance:** 1.2, 1.8, 2.1, 2.2
- **Knowledge:** (CA) 1-3, 5, 6
- **CAGLE:** R.1.D-H; LS.1.B; LS.2.A; IL.1.B,C (All Gr. 6)
- **NETS:** (3-5) 4, 8
- **DOK:** 2, 4

### Assessment/Evaluation

- Scientific journals – scoring guide
- Teacher observation – checklist

### Instructional Activities

- Daily weather data:
  - collecting
  - recording
  - analyzing
- Average weekly temperature data
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| (D) Conduct experiments and formulate graphs using scientific data | • Quiz – weather instruments  
• Science experiment sheets – scoring guides  
• Graphs and charts – scoring guides | • Experiments:  
• Sand temperature  
• Soil temperature  
• Water temperature  
• Grass temperature  
• The Water Cycle  
• Suck an egg into a bottle  
• The Coriolis Effect and Earth’s Winds  
• Making (a):  
  • tornado  
  • thunderstorm  
  • thunder  
  • lightning in your mouth  
  • rainbow  
  • Bend water  
  • Examine snowflakes  
• Create graphs and charts based on information gathered during the scientific process |
| Performance: 1.4, 1.6, 3.5  
Knowledge: (MA) 4  
MAGLE: AR.1.B (Gr. 6); M.1.C (Gr. 6); DP.1.A (Gr. 6); DP.3.A (Gr. 5)  
SSGLE: TSSI.7.B (Gr. 5)  
NETS: N/A  
DOK: 2-4 | | |

| (E) Use mathematical formulas to convert temperatures and solve other weather related problems | Assignments – scoring guides:  
• temperature averaging  
• converting temperatures  
• calculating temperature/altitude | • Make a(n):  
• thermometer  
• anemometer  
• rain gauge  
• Practice temperature:  
• averaging  
• conversion  
• and/or altitude calculations |
| Performance: 1.6  
Knowledge: (MA) 1  
MAGLE: AR.1.B; AR.3.A; AR.4.A (All Gr. 6)  
NETS: (3-5) 4,8  
DOK: 2,3 | | |

Last Revised: 4/29/09  
Board Approved: 07/20/09  
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| (F) Predict the weather using current data and present a weather forecast | • Teacher observation  
• “Live” weather forecast presentation – scoring guide  
• Self-evaluation  
• Peer-evaluation | • Review local weather forecasts  
• Write a forecast for presentation based on current local and national weather conditions  
• Discussion – various weather conditions based on pressure systems |
| Performance: 2.1, 2.3, 4.6  
Knowledge: (CA) 1,6  
CAGLE: LS.2.A (Gr. 6)  
SCGLE: SC7.1.C,D (Gr. 5)  
NETS: (3-5) 4,5  
DOK: 3,4 | | |
| Last Revised: 4/29/09  
Board Approved: 07/20/09 | | |