

Jefferson City Public Schools–Curriculum

SUBJECT: Elementary

COURSE: EER

STRAND: Weather Detectives

Objectives	Assessment/Evaluation	Instructional Activities
<p>(A) Study the earth’s weather and solve a weather related mystery</p> <p>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</p>	<ul style="list-style-type: none"> • Teacher observation – check list • Science journal – scoring guide • Weather Lore assignment – scoring guide 	<ul style="list-style-type: none"> • “What Is Weather?” • Suspect Clues: <ul style="list-style-type: none"> • Juan Sum Light • Joe Breezy • Ima Vapor • Debbie Drizzle • Bob Blizzard • Global Warming • Videos: <ul style="list-style-type: none"> • <i>An Inconvenient Truth</i> • <i>Natural Disasters: Natural Disasters & Weather</i>

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<p>(B) Use weather related vocabulary for reading related texts, writing, and oral communications</p> <p>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</p>	<ul style="list-style-type: none"> • Essay – Global Warming: Improving Our Environment – scoring guide • Written/oral presentation: My Weather Forecast – scoring guide • Quizzes: <ul style="list-style-type: none"> • weather vocabulary • weather safety 	<ul style="list-style-type: none"> • Weekly weather vocabulary • Keeping a weather journal • Readings/background information on: <ul style="list-style-type: none"> • drought • weather safety • The Dust Bowl • moving air • wind • The Water Cycle • tornadoes/lightning • hurricanes • floods • Videos: <ul style="list-style-type: none"> • <i>An Inconvenient Truth</i> • <i>Natural Disasters: Natural Disasters & Weather</i>
<p>(C) Gather, record, and analyze weather information using scientific investigation</p> <p>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</p>	<ul style="list-style-type: none"> • Scientific journals – scoring guide • Teacher observation – checklist 	<ul style="list-style-type: none"> • Daily weather data: <ul style="list-style-type: none"> • collecting • recording • analyzing • Average weekly temperature data

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<p>(D) Conduct experiments and formulate graphs using scientific data</p> <p>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</p>	<ul style="list-style-type: none"> • Quiz – weather instruments • Science experiment sheets – scoring guides • Graphs and charts – scoring guides 	<ul style="list-style-type: none"> • Experiments: <ul style="list-style-type: none"> • 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): <ul style="list-style-type: none"> • tornado • thunderstorm • thunder • lightning in your mouth • rainbow • Bend water • Examine snowflakes • Create graphs and charts based on information gathered during the scientific process
<p>(E) Use mathematical formulas to convert temperatures and solve other weather related problems</p> <p>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</p>	<p>Assignments – scoring guides:</p> <ul style="list-style-type: none"> • temperature averaging • converting temperatures • calculating temperature/altitude 	<ul style="list-style-type: none"> • Make a(n): <ul style="list-style-type: none"> • thermometer • anemometer • rain gauge • Practice temperature: <ul style="list-style-type: none"> • averaging • conversion • and/or altitude calculations

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<p>(F) Predict the weather using current data and present a weather forecast</p> <p>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</p>	<ul style="list-style-type: none"> • Teacher observation • “Live” weather forecast presentation – scoring guide • Self-evaluation • Peer-evaluation 	<ul style="list-style-type: none"> • 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