

## When Weather Collides

Date: 3/10/00

<b>Goal/ Aim/ Objective(s):</b>  1. <b>SWBAT:</b> describe types of air masses, where they originate and how they move 2. <b>SWBAT:</b> explain what fronts are 3. <b>SWBAT:</b> make connections between high & low pressure & good and bad weather 4. <b>SWBAT:</b> accurately read newspaper weather maps	<b>Essential Academic Learnings:</b>  <b>Science 1.2:</b> describe the components & relationships of the earth system <b>1.3:</b> understand that interactions within & among systems cause changes in matter <b>2.2:</b> record & report observations, explanations & conclusions  <b>Communication 1.1:</b> focus attention <b>1.2:</b> listen & observe to gain & interpret information <b>3.1:</b> use language to interact effectively and responsibly with others <b>3.2:</b> work cooperatively as a member of a group <b>3.3:</b> seek agreement & solutions through discussion  <b>Reading 2.1:</b> students will build vocabulary through reading <b>3.1:</b> read to learn new information <b>3.2:</b> read to perform a task  <b>Writing: 2.2:</b> write for different purposes  <b>Geography: 1.1:</b> use and construct maps
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### How will the learning be assessed?

**Oral Assessment:** Students will be orally quizzed throughout the lesson to ensure that they understand the concepts (goal 1, communication 1.1)

**Weather worksheet: 5 points possible**

Students will read and complete a worksheet on air masses and fronts. ( goals 1&2, earl communication 1.1, 1.2, reading 2.1, 3.1, 3.2)

**Group work:** students will be visually assessed & coached on proper group behavior (earl communication 1.1, 3.1, 3.2, 3.3)

**Newspaper weather activity: 15 points possible**

Students will work in groups of 4 to interpret a newspaper weather diagram. Students will locate fronts, air masses, and areas of high & low pressure and precipitation. Students will then answer questions – defining weather terms and interpreting the map. Students will be assessed on whether or not they can correctly identify components of weather maps & on if they can make inferences and draw conclusions (goals 1-4, earlrs science 1.2, 1.3, 2.2, reading 3.1, 3.2, writing 2.2, geography 1.1)

**Resources and Materials:** air masses & fronts worksheet, newspaper weather maps, transparencies, markers

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