

Air and Weather



TEKS:

2.2 Develop abilities necessary to do scientific inquiry in the field and the classroom. The student is expected to:

c. compare results of investigations with what students and scientists know about the world.

2.4 Use age appropriate tools and models to verify that objects can be observed, described, and measured. The Student is expected to:

a. collect information using tools including rulers, meter sticks, measuring cups, clocks, hand lenses, computer, thermometers, and balances.

2.5 Organisms objects and events have properties and patterns. The student is expected to:

a. classify and **sequence** organisms, objects, and events based on properties and patterns; and

b. identify, predict, replicate, and **create** patterns including those seen in charts, graphs, and numbers.

2.6 Systems have parts and are composed of organisms and objects. The student is expected to:

a. manipulate, predict, and **identify** parts that, when separated from the whole, may result in the part of the whole not working, such as flashlights without batteries and plants without leaves;

b. manipulate, predict, and **identify** parts that, when put together, can do things they cannot do by themselves, such as a guitar and guitar strings.

2.7 Many types of change occur. The student is expected to:

a. observe, measure, record, analyze, predict, and **illustrate** changes in size, mass, temperature, color, position, quantity, sound, and movement;

b. identify, predict, and **test** uses of heat to cause change such as melting and evaporation;

c. demonstrate a change in the motion of an object by giving the object a push or a pull; and

d. observe, measure, and **record** changes in weather, the night sky, and seasons.

2.10 The natural world includes rocks, soil, water, and gases of the atmosphere. The student is expected to:

a. describe and **illustrate** the water cycle; and

b. identify uses of natural resources.

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Teaching Time Line

Day	Lesson Title	Thinking Map	Sessions time	Instructional Method
1	Inventory, report any missing materials		45 min. prep. time	Teacher
2	1 Observing Weather; part 1 Weather Journals	Circle	45 min.	Whole Group
3	Part 2: Weather Calendars		20 min.	Whole group
4	Part 3: Record Temperatures		30 min.	Whole group
5	Part 4: Measure the Wind		30 min.	Center w/supervision
6	Part 5: Rain Gauges and Clouds		20 min.	Center w/supervision
7	Part 6: Weather Graphs	Tree	40 min.	Whole group
8	2 Air Explorations; part 1: Exploring Air	Bubble	40 min.	Center w/supervision
9	Part 2: Syringes and Tubes	Circle	50 min.	Center w/whole group discussion
10	Part 3: Syringes, Air, and Water		50 min.	Center w/supervision
11	Part 4: Bubbles	Bubble	50 min.	Whole group
12	3 Using Air; part 1: Parachutes	Brace	40 min.	Whole group
13	Part 2: Propellers		30 min.	Whole group/center
14	Part 3: Balloon Rockets		50 min.	Whole group
15	Part 4: Gliders		50 min.	Whole group
16	Part 5: Build Your Own Air User	Circle	30 min	Center
17	4 Wind Catchers: part 1: Streamers	Flow	30 min.	Center w/supervision
18	Part 2: Pinwheels	Flow	40 min.	Center w/supervision
19	Part 3 Wind Socks		45 min.	Center w/supervision
20	Part 4 Wind Vanes and Kites		50 min.	Center w/supervision
21	Part 5: Wirligigs		20 min.	Center w/supervision
22-25	Review, ASSESS , Reteach as Needed			