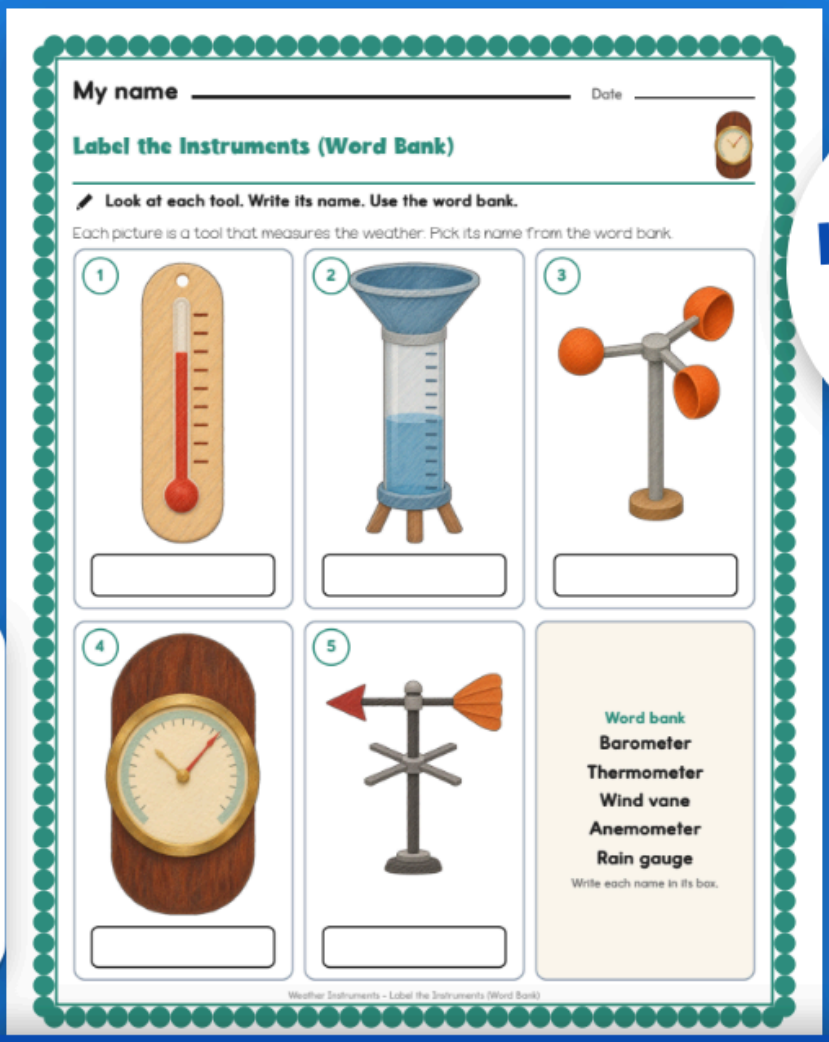
Bright Path Sped





13 STUDENT PAGES

WEATHER INSTRUMENTS

Label, Read, Match, Cut and Glue - Grades 5-8

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Print at 100 percent

Turn off fit to page and shrink to fit so the ruled lines stay 0.34 inch apart. Every page still reads when copied in black and white.

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PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Meet the Weather Instruments

Read about each tool. Then tell what you know.

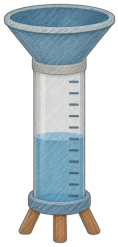
Weather instruments are tools that measure the weather with numbers. Here are five of them. The drawings are simplified.



Thermometer

Measures: temperature **Unit:** degrees Celsius (C) or Fahrenheit (F)

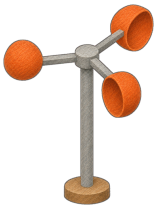
Liquid in a thin tube rises when the air gets warmer and drops when it gets colder. Read the number where the liquid stops.



Rain gauge

Measures: rainfall **Unit:** centimeters (cm) or inches (in)

An open tube catches the rain. Read the scale where the water stops, then empty the tube for the next time.



Anemometer

Measures: wind speed **Unit:** miles per hour (mph)

Cups catch the wind and spin around. The faster the cups spin, the faster the wind is blowing.



Barometer

Measures: air pressure **Unit:** inches of mercury (in Hg)

A needle on a dial moves when the pressure of the air changes. Pressure that keeps falling often means a storm is coming.



Wind vane

Measures: wind direction **Unit:** compass direction (N, S, E, W)

The arrow turns and points into the wind, toward the place the wind comes from.

Which of these tools have you seen or used before? Where?

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

Label the Instruments (Word Bank)

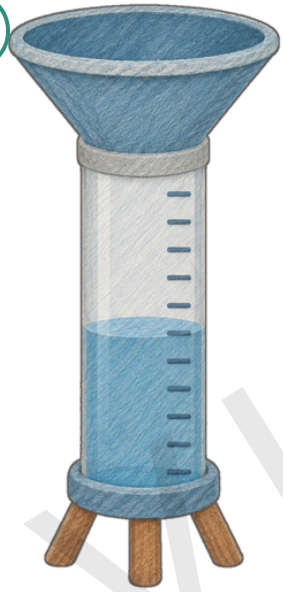
Look at each tool. Write its name. Use the word bank.

Each picture is a tool that measures the weather. Pick its name from the word bank.

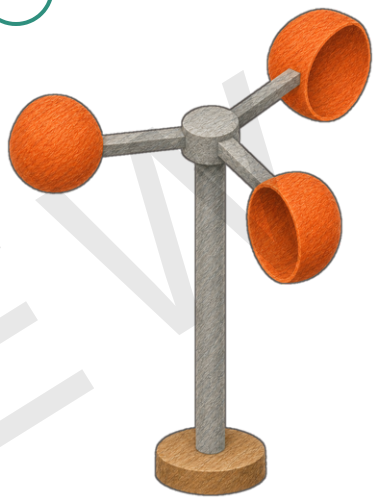
1



2



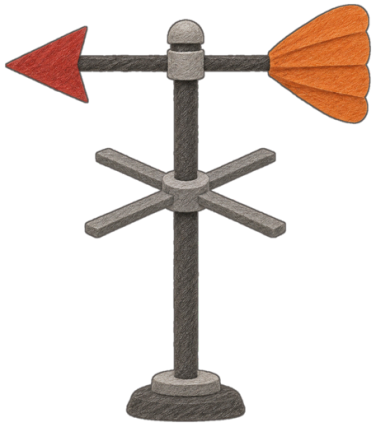
3



4



5



Word bank

Barometer

Thermometer

Wind vane

Anemometer

Rain gauge

Write each name in its box.

PREVIEW

Preview - Bright Path Shed

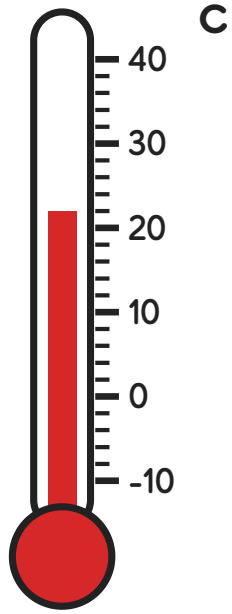
My name _____ Date _____

Read the Thermometer (Celsius)

Read each thermometer. Write the temperature.

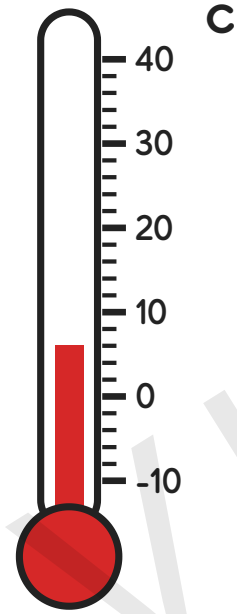
The red liquid shows the temperature. Each small tick is 2 degrees. The big ticks have numbers.

1



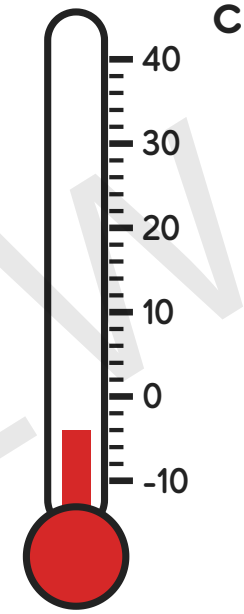
_____ degrees Celsius

2



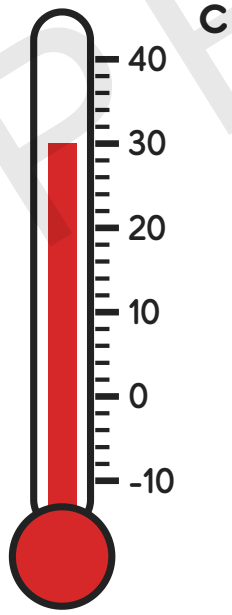
_____ degrees Celsius

3



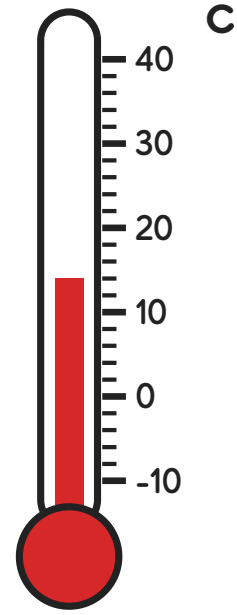
_____ degrees Celsius

4



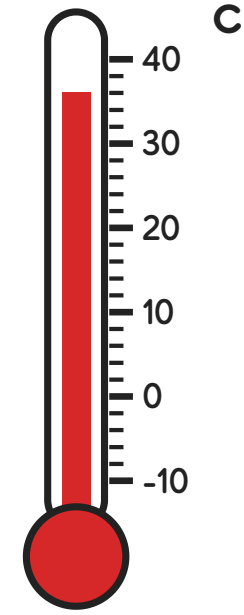
_____ degrees Celsius

5



_____ degrees Celsius

6

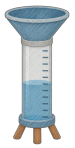


_____ degrees Celsius

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

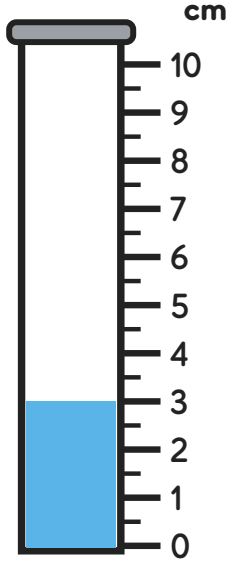


Read the Rain Gauge

Read each rain gauge. Write how many cm of rain.

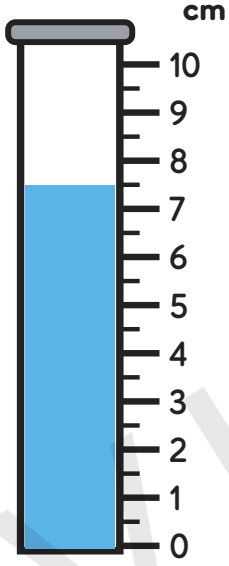
The blue water shows how much rain fell. Each long tick is 1 cm. Each short tick is half a cm.

1



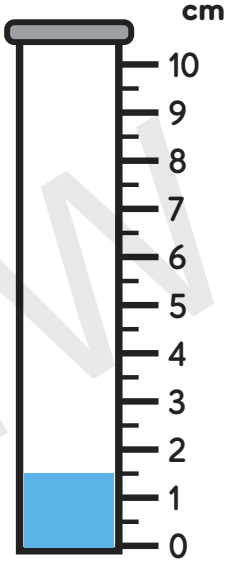
_____ centimeters

2



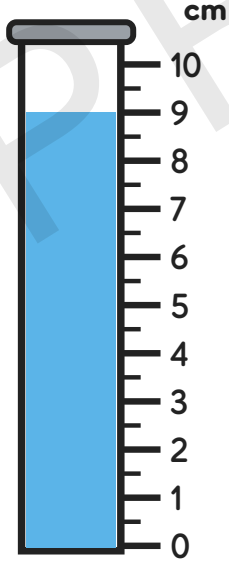
_____ centimeters

3



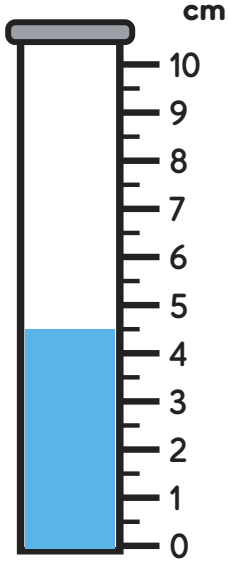
_____ centimeters

4



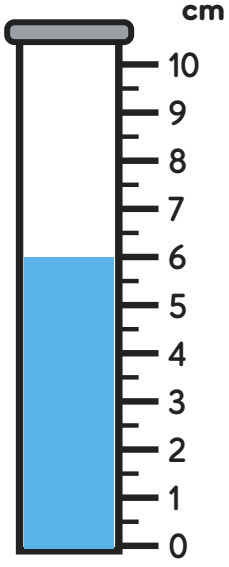
_____ centimeters

5



_____ centimeters

6



_____ centimeters

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

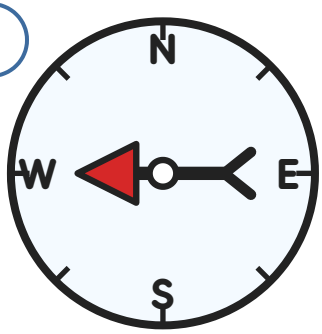
Wind Direction and Speed



Read each wind vane. Then read the wind speeds.

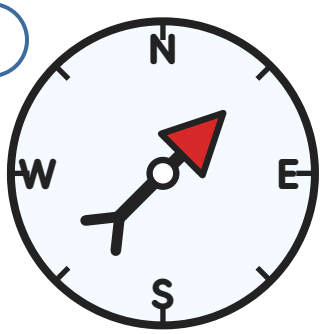
This is a wind vane seen from above. Its arrow points to the place the wind comes FROM. An arrow that points north means a north wind.

1



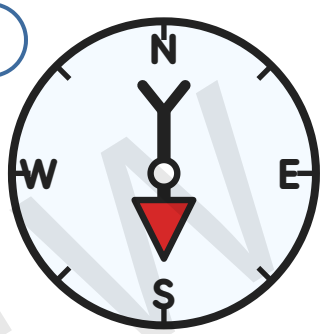
Wind from the ____

2



Wind from the ____

3



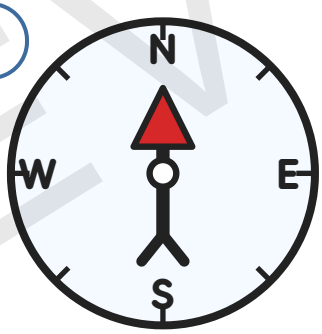
Wind from the ____

4



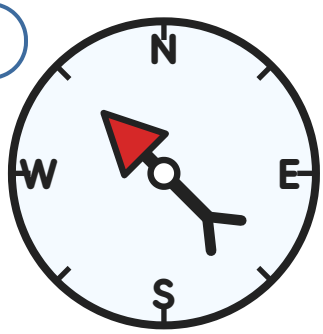
Wind from the ____

5



Wind from the ____

6



Wind from the ____

An anemometer measured the wind speed at noon each day.

Monday	Tuesday	Wednesday	Thursday
8 mph	15 mph	4 mph	22 mph

7 Which day had the fastest wind? ____

8 Which day had the slowest wind? ____

9 How many mph faster was Thursday than Wednesday? ____

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

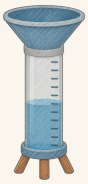


Which Tool Would You Use?

Read each job. Write the best tool.

You can use a tool more than once. Pick the best tool for each job.


Thermometer


Rain gauge


Anemometer


Barometer


Wind vane

1. You want to know if you need a coat today. _____
2. A garden needs water. How much rain fell last night? _____
3. You want to know if the wind is fast enough to fly a kite. _____
4. A sailor wants to know which way the wind is blowing from. _____
5. You want to know if the air pressure is rising or falling. _____
6. A class wants to graph the high temperature every day. _____
7. A farmer wants to know if 2 cm of rain fell on the field. _____
8. A weather team wants to know where today's wind is coming from. _____

Pick one job. Tell why that tool is the right one.

PREVIEW

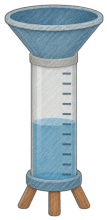
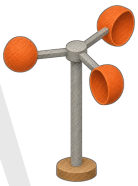
My name _____ Date _____

Cut and Glue: Tool Facts



Cut out the six pieces. Paste each one under its tool.

Each tool has its own facts. Paste each piece under the tool it tells about.

Thermometer	Rain gauge	Anemometer
		

Cut on the dashed lines: six pieces, one straight cut across and two down.

Catches water in an open tube	Reads in miles per hour	Reads in degrees
Has cups that spin in the wind	Has a bulb and a thin tube	Reads in centimeters or inches

Which piece was hardest to place? Why?

PREVIEW

Answer Key: Match, Choose, Cut and Glue

Pages 12 to 16. Written answers are samples, not the only right answers.

Match the Tool page 12

#	Tool	Measures	Unit
1	Thermometer	C: temperature	H: degrees (C or F)
2	Rain gauge	D: rainfall	J: centimeters or inches
3	Anemometer	A: wind speed	F: miles per hour
4	Barometer	B: air pressure	I: inches of mercury
5	Wind vane	E: wind direction	G: compass direction

Which Tool Would You Use? page 13

#	Answer	#	Answer
1	Thermometer	5	Barometer
2	Rain gauge	6	Thermometer
3	Anemometer	7	Rain gauge
4	Wind vane	8	Wind vane

Checking a finished mat

Read each strip left to right, top row first. On the instruments page each tool has two boxes, name first and what it measures second. On the tool facts page each box gets two pieces. The match page has two banks: letters A to E for what a tool measures, letters F to J for its unit.

Cut and Glue the Instruments page 15

Piece (row, column)	Box
r1 c1: air pressure	Barometer, measures box
r1 c2: Thermometer	Thermometer, name box
r1 c3: Wind vane	Wind vane, name box
r1 c4: rainfall	Rain gauge, measures box
r1 c5: Anemometer	Anemometer, name box
r2 c1: temperature	Thermometer, measures box
r2 c2: Barometer	Barometer, name box
r2 c3: wind speed	Anemometer, measures box
r2 c4: Rain gauge	Rain gauge, name box
r2 c5: wind direction	Wind vane, measures box

Cut and Glue: Tool Facts page 16

Piece (row, column)	Box
r1 c1: Catches water in an …	Rain gauge
r1 c2: Reads in miles per …	Anemometer
r1 c3: Reads in degrees	Thermometer
r2 c1: Has cups that spin …	Anemometer
r2 c2: Has a bulb and …	Thermometer
r2 c3: Reads in centimeters or …	Rain gauge

Written answers (page 14)

- **Pick one:** names one instrument, says what it measures (for example, a rain gauge measures rainfall), gives its unit (centimeters or inches) and tells how it is read (the scale where the water stops).
- **A storm may be coming:** any two of: a barometer (the air pressure keeps falling), an anemometer (the wind speed is going up), a rain gauge (it shows how much rain is falling), a wind vane (it shows which way the wind is coming from).
- **Why measure:** numbers do not change from person to person, so they can be compared from day to day and place to place; looking outside only gives a guess.
- **Exit question:** any real question about measuring weather. Accept any answer that is true and gives a reason.

PREVIEW

Class Progress Grid

Every student on one grid: items right by page type.

Class or group _____ Month _____

Student	Label (of 15)	Thermometer (of 14)	Rain gauge (of 13)	Wind (of 9)	Match (of 10)	Which tool (of 8)	Cut, glue (of 16)

PREVIEW

How to fill this in

For each column, add up how many items that student has right with no prompt (the tracker rows). One glance across a row shows which skill is easiest and which is next.

Grouping for small-group time

Students low in Label can start with the word bank page (page 5) and the instruments cut and glue (page 15). Students low in Thermometer or Rain gauge can say what each tick is worth before they read (pages 7 and 9). Students near full marks can move to the no-bank page (page 6) and the writing page (page 14).

Maya's Tracker (Invented Student)

Maya T. is invented; nothing on this page describes a real student. The blank tracker is on page 19.

Student: Maya T. (an invented student)

Teacher: Ms. Lindqvist (invented)

Month: October

Page	Page type and set	Items	Right	Date	Notes
5	Label the Instruments (Word Bank)	5	5	10/6	-
6	Label the Instruments (No Word Bank)	10	8	10/8	Mixed up barometer and anemometer
7	Read the Thermometer (Celsius)	6	5	10/10	Read -4 as 4
8	Read the Thermometer (Fahrenheit)	8	6	10/13	Counted ticks as 1, not 5
9	Read the Rain Gauge	6	5	10/15	Misread a half-cm tick
10	A Rainy Week	7	4	10/17	Added only four days
11	Wind Direction and Speed	9	-	-	-
12	Match the Tool	10	-	-	-
13	Which Tool Would You Use?	8	-	-	-
15	Cut and Glue the Instruments	10	-	-	-
16	Cut and Glue: Tool Facts	6	-	-	-

PREVIEW

How to read it

Maya T. has done **6 of 11** scored pages and got **33 of 42** items right with no prompt. **1** page was all right and **5** carry a note. Every number comes from the table.

What the table points to

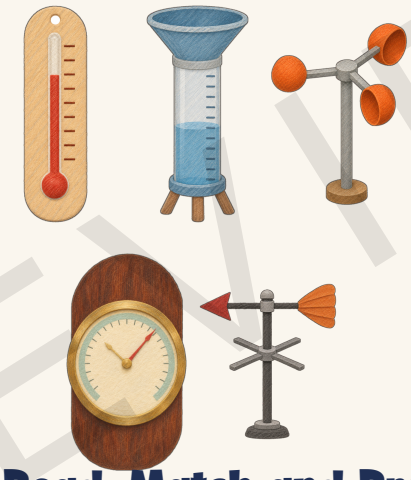
The lowest page is A Rainy Week (4 of 7). That is where the next practice goes. The 5 pages left blank are not tried yet, never wrong.

Binder Cover

Slide this into the front of a binder. Type a name in the two fields or write it by hand. The divider tabs and a spine label to cut out are on the next page (page 25).

Science - Weather

WEATHER INSTRUMENTS



Label, Read, Match and Practice

Thermometer	**Rain gauge**	**Anemometer**
Barometer	**Wind vane**	

Teacher _____

Class or student _____

PREVIEW