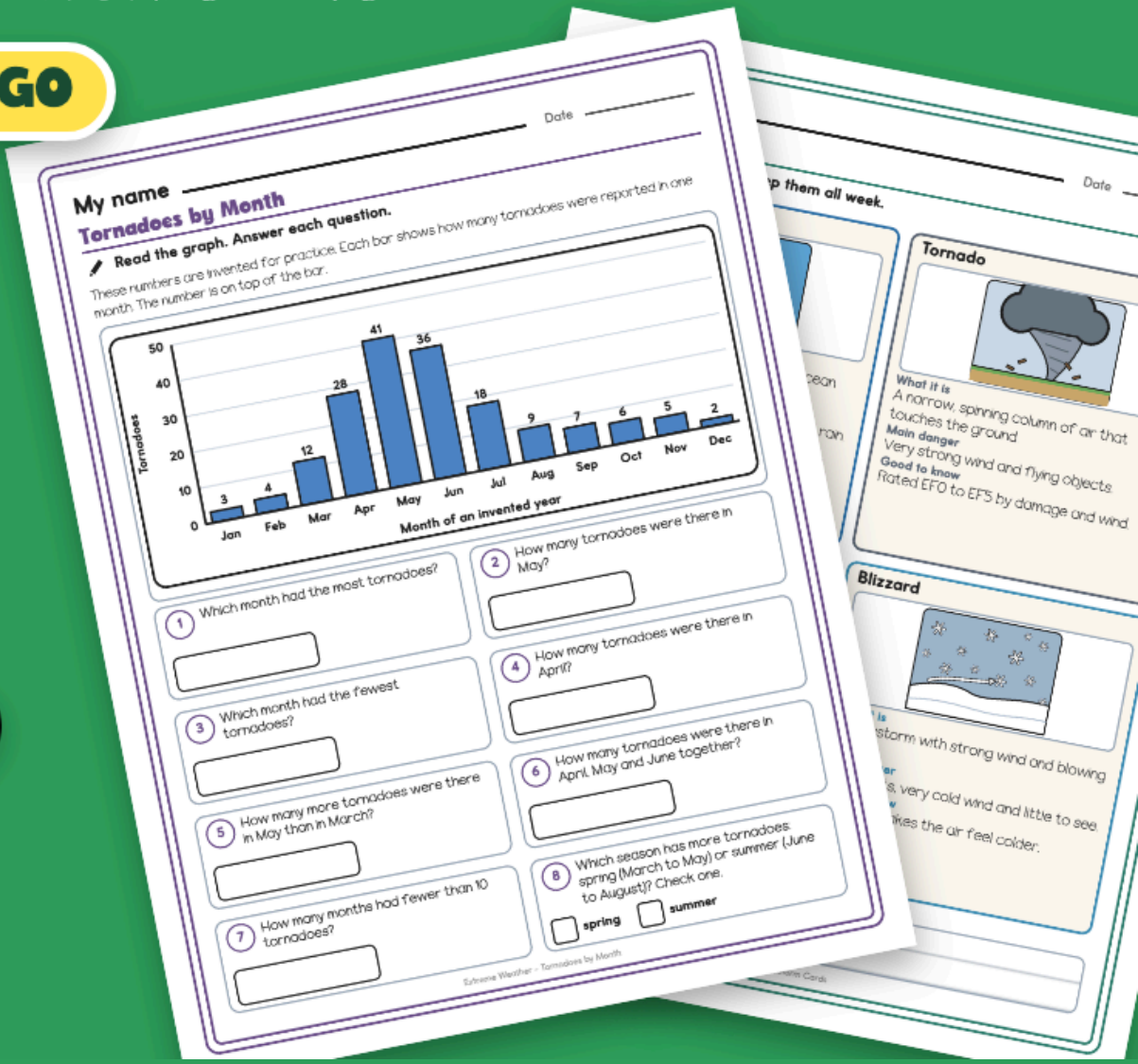
EXTREME WEATHER

GRADES 6-8 · WORKSHEETS

PRINT AND GO



Bright Path Sped

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This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
- The name line, every answer box, every ruled work box and every check box on the student pages are type-in fields, and so are the tracker, class grid, team note and family page. You can also print any page and write by hand.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the ruled lines stay 0.34 inch apart. Every student page has a colored border and colored drawings, and it still reads when copied in black and white. The colors copy as shades of gray.

Student work

A filled-in tracker, class grid or team note carries a real student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands.

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PREVIEW

How To Read a Page

The parts of a student page, then the kinds of sheet in the order they come.

The parts of a page

- **The answer box.** A bordered box for a letter, a number or a word. Click it to type, or print and write in it.
- **The ruled work box.** Lines 0.34 inch apart for sentences. Write one idea to a line.
- **The check box.** True or false, northwest or northeast, spring or summer: click or mark.
- **The word bank.** A box of words to use. Each word is used one time unless the page says otherwise.

Kind of sheet	How many	What the student does
Readings and cards	4 sheets	Read, answer, and keep the storm cards to look things up.
Words, order, compare	3 sheets, 29 items	Match nine words, order the steps for two storms, fill in a chart.
Scales and the track	2 sheets, 14 items	Read categories and ratings from tables, then plot an invented hurricane.
Graphs	2 sheets, 16 items	Read two bar graphs of invented data and do the arithmetic.
Family storm plan	1 sheet	A write-in page: the family's own plan, in the family's own words.
True or false and mistakes	2 sheets, 12 items	Check sentences, fix false ones, find Maya's mistakes.
Writing and the quiz	1 sheet, 6 quiz items	Short answers with ruled lines, then a six-item quiz.
Sorts	3 sheets, 24 pieces	Sort clues, wind speeds and storm pictures.

Untimed, unscored on the page

No student page has a timer or a score on it. The keys and the tracker are for you. The answer keys are on pages 24 to 27.

Short answers

Their key (page 26) says what to look for, not one right sentence. Accept any answer that uses a fact from the readings or the cards.

Invented storms and data

The storm names, the tracking grid and the numbers in both graphs are made up for practice. Every graph, track and category answer in the keys (pages 24 and 25) is worked out from the same numbers that draw the page.

The family storm plan page

Page 15 has no right answer and tells students nothing to do in a storm. Every box is blank. Use your school's or your local emergency office's own plan when you teach what to do; write its name on the line below.

_____

Printing and the type-in fields

Every page prints clean in black and white. The name line, every answer box, ruled box and check box are type-in fields in any PDF reader: click, type, save. This is a fillable PDF, not a slideshow or a word-processor file. Print page 12 to plot the track by hand.

PREVIEW

Preview · Bright Path Sped

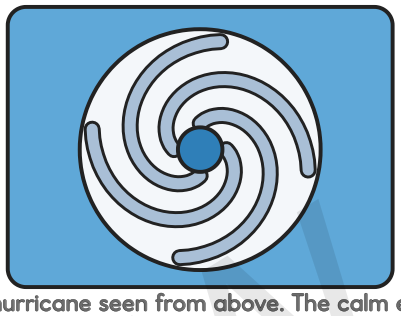
My name _____ Date _____

Reading 1: Hurricanes

Read about hurricanes. Then answer.

A hurricane forms over warm ocean water

A **hurricane** is a huge, spinning storm that forms over warm ocean water. Warm, wet air rises from the ocean. As the air rises it cools, and clouds and thunderstorms form. Air rushes in to take the place of the rising air, and the whole storm begins to spin. When the winds reach 74 miles per hour, the storm is called a hurricane. At the center is a calm area called the **eye**, where the sky is often clear. Around the eye is the **eyewall**, where the strongest winds and the heaviest rain are found. The greatest danger is often **storm surge**, a rise of ocean water that is pushed onto the shore. When a hurricane moves over land it loses its supply of warm ocean water, and it slowly weakens. Hurricanes are rated in categories 1 to 5 by their wind speed.



A hurricane seen from above. The calm eye is in the center.

Main idea: What is this reading mostly about?

Check what you read. Write the letter in the box.

1. Where does a hurricane form?
   - **A** Over cold mountains
   - **B** Over dry desert land
   - **C** Over warm ocean water

2. What is the eye of a hurricane?
   - **A** A calm area at the center
   - **B** The area with the strongest winds
   - **C** The edge of the storm

3. What happens when a hurricane moves over land?
   - **A** It grows stronger
   - **B** It loses warm water and weakens
   - **C** It turns into a blizzard

4. What is storm surge?
   - **A** The wind around the eye
   - **B** Rain that falls for days
   - **C** A rise of ocean water pushed onto the shore

PREVIEW

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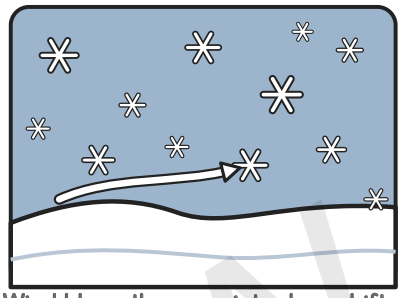
My name _____ Date _____

Reading 3: Blizzards

Read about blizzards. Then answer.

A blizzard is a snowstorm with strong wind

A **blizzard** is a snowstorm with strong wind. The wind blows the snow so hard that it is very difficult to see, even when no new snow is falling. A blizzard needs cold air below freezing, so that moisture falls as snow instead of rain, and a strong wind. The wind piles the snow into **drifts**, deep mounds shaped by the wind. Wind also makes the air feel colder than the thermometer says. How cold the wind makes the air feel on your skin is called **wind chill**. A blizzard can last for hours. Roads can be closed and power lines can come down, so weather services give warnings before a blizzard arrives.



Wind blows the snow into deep drifts.

Main idea: What is this reading mostly about?

Check what you read. Write the letter in the box.

1. What makes a blizzard different from other snowstorms?
   - **A** It happens only at night
   - **B** Strong wind and very low visibility
   - **C** It has no snow at all

2. What is a snow drift?
   - **A** A deep mound of snow shaped by wind
   - **B** A kind of cloud
   - **C** A fall of freezing rain

3. What is wind chill?
   - **A** The temperature of the snow
   - **B** How fast the snow falls
   - **C** How cold the wind makes the air feel

4. Why does the air need to be below freezing?
   - **A** So the wind can blow
   - **B** So moisture falls as snow, not rain
   - **C** So the sun can melt the snow

PREVIEW

My name _____ Date _____

Extreme Weather Words

Match each word to what it means.

These are extreme weather words. Write the letter of the meaning in the box. Use the readings to help you.

1	**hurricane**		**A**	Spinning air that has not reached the ground.
2	**eye**		**B**	A snowstorm with strong wind and very low visibility.
3	**storm surge**		**C**	The calm area at the center of a hurricane.
4	**tornado**		**D**	How cold the wind makes the air feel on your skin.
5	**funnel cloud**		**E**	A huge spinning storm that forms over warm ocean water.
6	**thunderstorm**		**F**	A storm with lightning, thunder and heavy rain.
7	**lightning**		**G**	A rise of ocean water pushed onto the shore by a storm.
8	**blizzard**		**H**	A giant spark of electricity in a storm cloud.
9	**wind chill**		**I**	A spinning column of air that touches the ground.

Use two of the words in one sentence about a storm.

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Hurricane Categories and Tornado Ratings

Use the tables. Write the number.

These storms are invented. Find the wind speed in the table. Write the category or the rating number.

Hurricane category	Wind speed
1	74 to 95 mph
2	96 to 110 mph
3	111 to 129 mph
4	130 to 156 mph
5	157 mph or more

Tornado rating	Wind speed
EF0	65 to 85 mph
EF1	86 to 110 mph
EF2	111 to 135 mph
EF3	136 to 165 mph
EF4	166 to 200 mph
EF5	over 200 mph

1. Storm A has winds of 102 mph.

Category ☐

2. Storm B has winds of 135 mph.

Category ☐

3. Storm C has winds of 80 mph.

Category ☐

4. Storm D has winds of 165 mph.

Category ☐

5. Tornado E has winds of 90 mph.

Rating EF ☐

6. Tornado F has winds of 140 mph.

Rating EF ☐

7. Tornado G has winds of 70 mph.

Rating EF ☐

8. Tornado H has winds of 120 mph.

Rating EF ☐

Tell how you used the tables.

PREVIEW

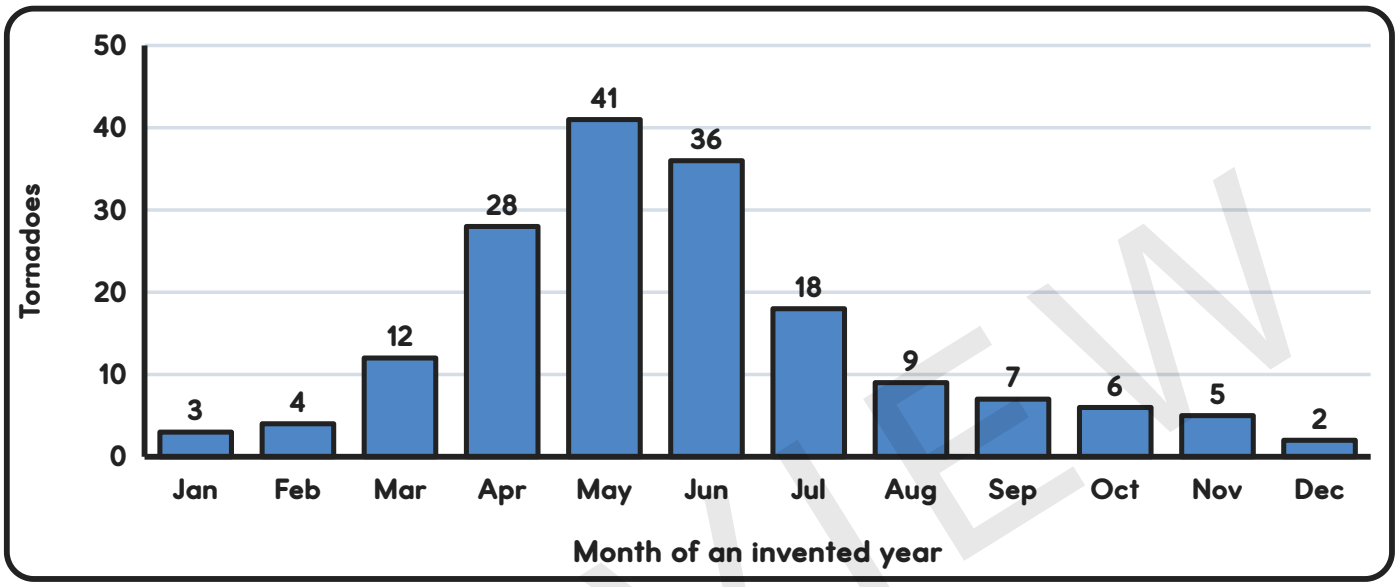
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My name _____ Date _____

Tornadoes by Month

Read the graph. Answer each question.

These numbers are invented for practice. Each bar shows how many tornadoes were reported in one month. The number is on top of the bar.



1. Which month had the most tornadoes?

2. How many tornadoes were there in May?

3. Which month had the fewest tornadoes?

4. How many tornadoes were there in April?

5. How many more tornadoes were there in May than in March?

6. How many tornadoes were there in April, May and June together?

7. How many months had fewer than 10 tornadoes?

8. Which season has more tornadoes: spring (March to May) or summer (June to August)? Check one.

☐ **spring** ☐ **summer**

PREVIEW

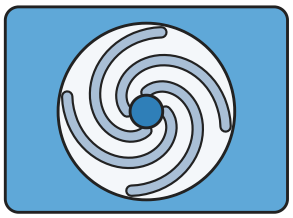
Preview · Bright Path Sped

My name _____ Date _____

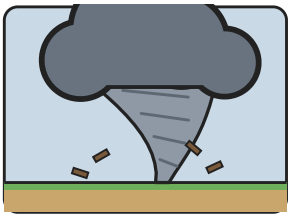
My Family Storm Plan

Ask at home. Write your own plan.

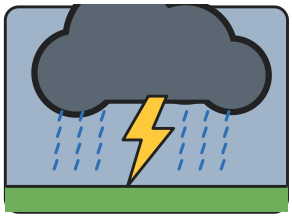
There is no right answer on this page. Talk with a grown-up at home. Write what your own family does. If you are not sure, write a question to ask.



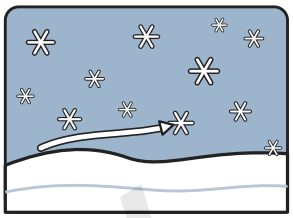
Hurricane



Tornado



Thunderstorm



Blizzard

My storm. Check one.

☐ Hurricane ☐ Tornado ☐ Thunderstorm ☐ Blizzard

How my family finds out a storm is coming:

Where my family goes:

Who my family calls:

What my family keeps ready:

One question I still have:

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

True or False

Is it true or false? Check one.

Check true or false for each sentence.

1. A hurricane forms over warm ocean water. ☐ true ☐ false
2. The eye of a hurricane is where the winds are strongest. ☐ true ☐ false
3. Storm surge is the rain that falls during a hurricane. ☐ true ☐ false
4. A funnel cloud becomes a tornado when it touches the ground. ☐ true ☐ false
5. A Category 5 hurricane has stronger winds than a Category 1 hurricane. ☐ true ☐ false
6. We hear the thunder before we see the lightning. ☐ true ☐ false
7. A tornado usually lasts for days over the same place. ☐ true ☐ false
8. A blizzard needs strong wind as well as snow. ☐ true ☐ false

Pick one false sentence. Fix it so it is true.

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Short Answers

Answer each question in sentences.

Use facts from the readings and the cards. Write in sentences.

1. Tell two ways a hurricane and a tornado are different.

2. Why does a hurricane weaken when it moves over land?

3. Look at the tornado graph on page 13. Tell when most tornadoes happened and how you know.

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Cut and Sort: Which Storm?

Cut out the clues. Glue each one in its storm box.

Read each clue. Which storm is it? Two pieces go in each box.

Hurricane	Tornado	Thunderstorm	Blizzard

Cut on the dashed lines: eight pieces, one cut across and three cuts down.

Heavy rain and hail fall from a tall cloud.	A narrow funnel touches the ground.	Wind chill makes the air feel colder.	A calm eye sits in the center.
It is rated EF0 to EF5.	Strong wind blows the snow so no one can see.	Storm surge floods the shore.	Lightning flashes and thunder booms.

Tell one clue that helped you pick a storm.

PREVIEW

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My name _____ Date _____

Cut and Sort: Storm Pictures

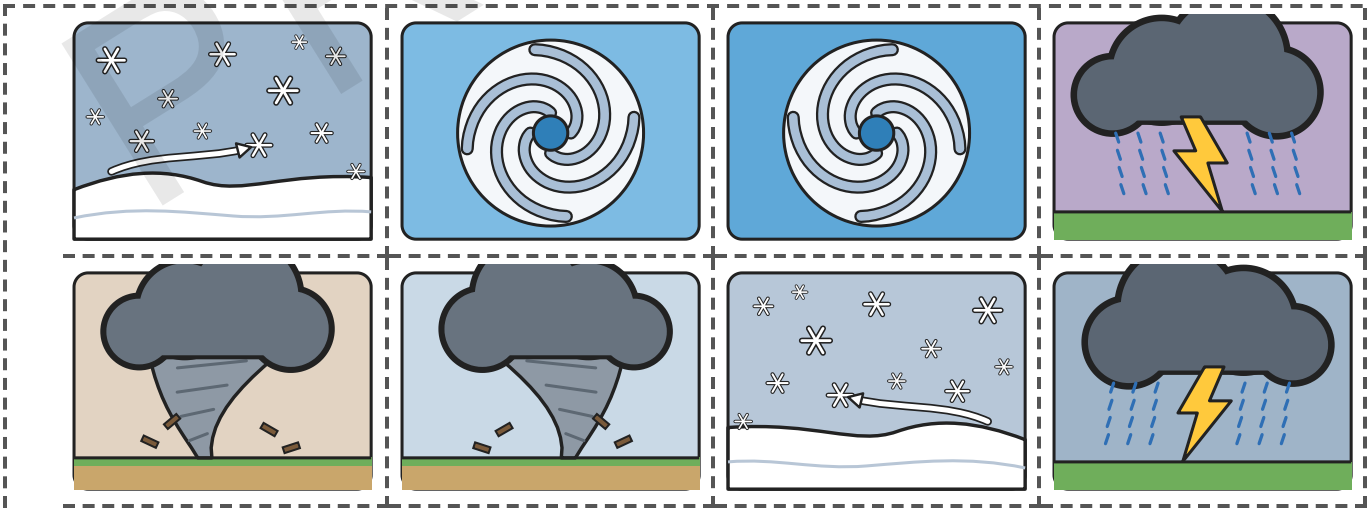
Cut out the pictures. Glue each one in its storm box.

Look at the picture on each piece. Which storm is it? Some pictures face the other way.

Hurricane	Tornado	Thunderstorm	Blizzard

PREVIEW

Cut on the dashed lines: eight pieces, one cut across and three cuts down.



Tell how a tornado and a hurricane look different.

Answer Key: Scales, Track, Graphs

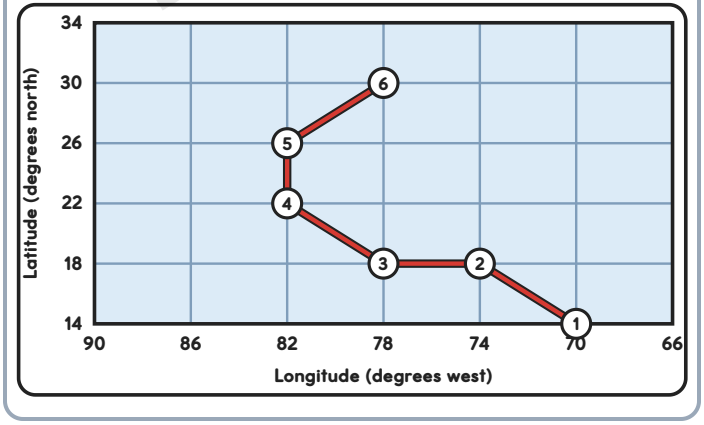
Every answer is worked out from the table or the numbers that draw the page.

Categories and Ratings page 11

Item	Storm	Answer	Table row
11.1	Storm A, 102 mph	Category 2	96 to 110 mph
11.2	Storm B, 135 mph	Category 4	130 to 156 mph
11.3	Storm C, 80 mph	Category 1	74 to 95 mph
11.4	Storm D, 165 mph	Category 5	157 mph or more
11.5	Tornado E, 90 mph	EF1	86 to 110 mph
11.6	Tornado F, 140 mph	EF3	136 to 165 mph
11.7	Tornado G, 70 mph	EF0	65 to 85 mph
11.8	Tornado H, 120 mph	EF2	111 to 135 mph

Track a Hurricane page 12

Item	Question	Answer
12.1	Which day had the fastest wind?	Day 4
12.2	What was the wind speed on Day 6?	85 mph
12.3	From Day 1 to Day 4, which way did the storm move? Check one.	northwest
12.4	From Day 5 to Day 6, which way did it move? Check one.	northeast
12.5	How many degrees north did the storm travel from Day 1 to Day 6?	16
12.6	On which day did the wind first reach 100 mph or more?	Day 3



What the plotted track should look like (invented storm).

Tornadoes by Month page 13

Item	Question	Answer
13.1	Which month had the most tornadoes?	May
13.2	How many tornadoes were there in May?	41
13.3	Which month had the fewest tornadoes?	December
13.4	How many tornadoes were there in April?	28
13.5	How many more tornadoes were there in May than in March?	29
13.6	How many tornadoes were there in April, May and June together?	105
13.7	How many months had fewer than 10 tornadoes?	7
13.8	Which season has more tornadoes: spring (March to May) or summer (June to August)? Check one.	spring

Snowfall in a Blizzard page 14

Item	Question	Answer
14.1	Which day had the most snow?	Wednesday
14.2	How many inches of snow fell on Wednesday?	18
14.3	Which day had the least snow?	Sunday
14.4	How many more inches fell on Tuesday than on Monday?	6
14.5	How many inches fell on Tuesday and Wednesday together?	30
14.6	How many inches fell in all six days?	49
14.7	Which day had exactly 8 inches?	Thursday
14.8	Which two days in a row had the most snow together? Check one.	Tue and Wed

PREVIEW

Answer Key: Sorts

Pieces are named by their row and column in the cutting grid, left to right and top to bottom.

Cut and Sort: Which Storm? page 21

Piece (row, column)	Box
r1 c1: heavy rain and hail	Thunderstorm
r1 c2: narrow funnel touches the ground	Tornado
r1 c3: wind chill, colder air	Blizzard
r1 c4: calm eye in the center	Hurricane
r2 c1: rated EF0 to EF5	Tornado
r2 c2: wind blows the snow, no one can see	Blizzard
r2 c3: storm surge floods the shore	Hurricane
r2 c4: lightning and thunder	Thunderstorm

Cut and Sort: Hurricane Categories page 22

Piece (row, column)	Box
r1 c1: 126 mph	Category 3
r1 c2: 98 mph	Category 2
r1 c3: 150 mph	Category 4
r1 c4: 82 mph	Category 1
r2 c1: 108 mph	Category 2
r2 c2: 134 mph	Category 4
r2 c3: 91 mph	Category 1
r2 c4: 114 mph	Category 3

Cut and Sort: Storm Pictures page 23

Piece (row, column)	Box
r1 c1: blizzard picture, facing right	Blizzard
r1 c2: hurricane picture, facing the other way	Hurricane
r1 c3: hurricane picture, facing right	Hurricane
r1 c4: thunderstorm picture, facing the other way	Thunderstorm
r2 c1: tornado picture, facing the other way	Tornado
r2 c2: tornado picture, facing right	Tornado
r2 c3: blizzard picture, facing the other way	Blizzard
r2 c4: thunderstorm picture, facing right	Thunderstorm

A note on the sorts

Hurricane: a calm eye, storm surge, spiral clouds. Tornado: a narrow funnel touching the ground, rated EF0 to EF5. Thunderstorm: lightning, thunder, heavy rain and hail from a tall cloud. Blizzard: strong wind, blowing snow, wind chill. In the category sort, each box takes the two speeds that fall inside the range printed on its title. Half the storm pictures are drawn facing the other way. Each box gets two pieces.

PREVIEW

Class Progress Grid

Every student on one grid: items right by kind of sheet.

Class or group _____ Month _____

Student	Readings (of 12)	Words (of 9)	Order, compare (of 20)	Scales, track (of 14)	Graphs (of 16)	True or false, mistakes (of 12)	Quiz (of 6)	Sorts (of 24)

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 Readings or Words need the readings, the storm cards and the words first (pages 5 to 9). Students low in Graphs or Scales, track need pages 11 to 14 again, with the tables beside them. Students near full marks can move to the sorts and the quiz (pages 20 to 23).

Jordan's Tracker (Invented Student)

Jordan P. is invented; nothing on this page describes a real student. The blank tracker is on page 28.

Student: Jordan P. (an invented student)

Teacher: Ms. Patel (invented)

Month: November

Page	Page type and set	Items	Right	Date	Notes
5	Reading 1: Hurricanes	4	4	11/3	-
6	Reading 2: Tornadoes and Thunderstorms	4	4	11/4	-
7	Reading 3: Blizzards	4	4	11/5	-
9	Extreme Weather Words	9	7	11/6	Swapped funnel cloud and tornado
10	How Storms Form	8	7	11/7	Hurricane steps 2 and 3 swapped
11	Hurricane Categories and Tornado Ratings	8	7	11/10	Used the wrong row for one EF rating
12	Track a Hurricane	6	5	11/11	Read the wrong day for the fastest wind
13	Tornadoes by Month	8	6	11/12	Added April, May and June wrong
14	Snowfall in a Blizzard	8	8	11/13	-
16	Compare the Four Storms	12	10	11/14	Put how long it lasts on the wrong storm
17	True or False	8	-	-	-
18	Find the Mistake	4	-	-	-
20	Quiz	6	-	-	-
21	Cut and Sort: Which Storm?	8	-	-	-
22	Cut and Sort: Hurricane Categories	8	-	-	-
23	Cut and Sort: Storm Pictures	8	-	-	-

How to read it

Jordan P. has done **10 of 16** scored sheets and got **62 of 71** items right with no prompt. **4** sheets were all right and **6** carry a note. Every number comes from the table.

What the table points to

The lowest sheet is Tornadoes by Month (6 of 8). That is where the next practice goes. The 6 sheets left blank are not tried yet, never wrong.

PREVIEW