UNIT OVERVIEW

"Weather Instruments: Rain Gauges, Barometers, Humidity, and Thermometers" is a two week language arts unit intended for use with Grade Two/Three children. It can be used to strengthen the children's reading and writing skills. Throughout this unit, children are involved in activities that focus their attention on language and how it is used. They brainstorm, use jot notes, write paragraphs, look up definitions in the dictionary, answer questions in complete sentences, and complete cloze activities.

A display of books about weather instruments should be set up in the classroom. The books motivate the children and encourage them to read for enjoyment and for information. Children refer to these books as they complete the daily activities in their student booklets. In addition, children are encouraged to read these books in their spare time and during silent reading.

Section One: Lesson Plans

Section One contains two weeks of lesson plans. The lesson plans describe the different teaching strategies for using the activities in each day's lesson. Each lesson includes a spelling activity, a brainstorming activity, writing a paragraph, looking up words in the dictionary, answering questions in complete sentences, completing a cloze activity, playing a weather instruments word game, and a parent page.

Section Two: Student Booklets

Section Two includes a student booklet that is ready to be photocopied for student use. There are four pages that go along with each of the weather instruments being studied. The first page contains a number of jot notes about the weather instrument. The children determine the best order for the jot notes and then use the jot notes to write a paragraph or two about the weather instrument. The second page contains three vocabulary words. The children determine the meaning of each vocabulary word and then use the word in a sentence. The third page contains five questions about the weather instrument being studied. The children are encouraged to answer the questions using complete sentences. The fourth page contains a cloze activity for the children to complete, along with room to draw a picture of the weather instrument.

1.	What does a rain gauge measure?
2.	How does a rain gauge work?
3.	What is the special ruler on a rain gauge used for?
4.	Where is the best place to put a rain gauge?
5.	When would it be useful to have a rain gauge?

A rain ________ is a weather instrument used to _______ the amount of _______ in one place for a certain length of _______ that has a long narrow _______ in it.

There is a special _______ on the ______ of rainfall is determined by measuring the amount of ______ The ______ in the long narrow tube. The amount of rain is measured in ______ area outside. It ______ away from buildings and _______ for accuracy.

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SPELLING LISTS

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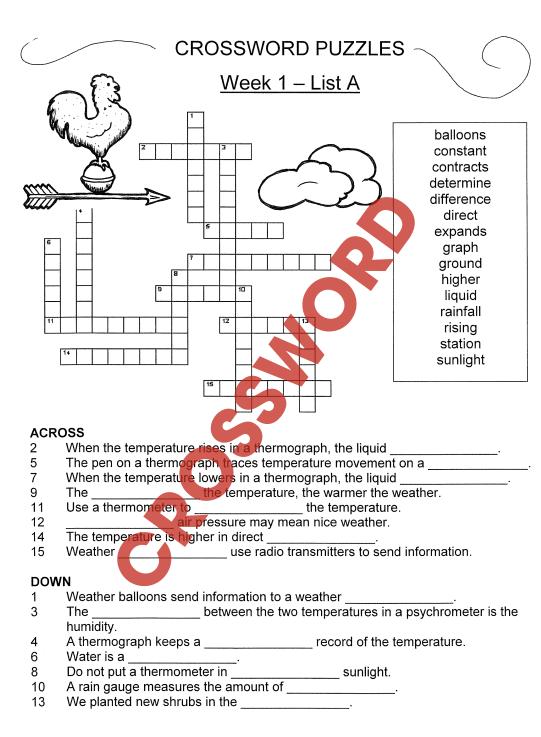
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Week 1 – List A Week 1 – List B direct weather higher gauge rainfall accuracy rising cylinder determine barometer difference average ground sunlight graph constant thermometer liquid expands emperature contracts Centigrade balloon information station thermograph Week 2 - List A Week 2 - List B earth Fahrenheit pilots atmosphere hurricane transmitter equipment hydrogen direction vapour storm parachute vane radiosonde arrow anemometer rotate satellite orbit weathermen pictures cyclones predict typhoons scale millimetres cloud instrument rain pressure



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WORD SEARCH PUZZLES Week 1 – List A

ı	J	Q	Ε	D	Υ	F	1	G	R	Α	Р	Н	0	В	Ζ	M	В	0	L	Ε	S
I	1	T	L	W	I	С	Н	F	М	L	1	Q	U	1	D	0		E	М	S	U
Т	Υ	Ε	В	С	T	R	L	1	L	U	T	С	1	R	0	V	A	Α	Н	W	Ν
J	U	S	W	Н	G	М	Ε	В	G	Р	U	D	U	L	T	R	N	Υ	С	1	L
R	Α	1	Ν	F	Α	L	L	С	Υ	Н	В	Ε	Q	N	X	E		Κ	Α	Ε	1
G	R	0	U	N	D	Υ	S	Κ	T	Х	Ε	Α	4	R	+	S	١	Ν	G	J	G
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В	A	L	L	0	0	N	T	Q	I	U	V	F	V	Z	Υ	С	F	Ε	Ν	Р	Т
Ε	Χ	Р	Α	N	D	S	1	Q	Р	T	X	R	Z	D	В	Р	Α	М	J	Ν	Ζ
W	D	Ε	U	М	Α	K	0	D	Ε	T	E	R	М	I	Ν	Ε	S	U	S	С	Р
D	ı	F	F	Ε	R	Ε	Ν	C	E	W	Ī	L	L	V	В	В	W	М	D	С	Ε

balloon constant contract determine difference direct expands graph ground higher liquid rainfall rising station sunlight

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WEEK TWO – DAY FIVE

Dear	Parents: This work lete the activities or	sheet reviews the material your child learned at school today. Take ten minutes to a this page with your child.
Print t	he meanings of	the following words:
	predict _	
	wheele	
2.	orbit _	
	-	
3.	speed _	
Answe	 er the following o	questions in complete sentences:
1.	What is a weat	her satellite used for?
2.	Where does a	weather satellite send the pictures of clouds?
3.	What do weath	ermen do with the pictures of the clouds?
4.	How do four sa	atellites take pictures of the whole earth?
5.	When would it	be helpful to use information from a weather satellite?

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WEATHER INSTRUMENTS WORD GAME

rain gauge	measures amount of rainfall
barometer	measures air pressure
psychrometer	measures humidity in air
thermometer	measures immediate temperature
thermograph	keeps constant record of temperature

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UNIT TEST
Instrument Definitions
Describe what each weather instrument is used for:
weather balloon
anemometer
thermograph
psychrometer
radiosonde

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to travel around the earth

water turns into vapour

ANSWE

vapour turns into water

WEATHER REVIEW GAME ANSWER KEY

HER DEFINITIONS

rater vapour in the air – What is humidity?
ir surrounding the earth – What is atmosphere?
travel around the earth – What is orbit?
rater turns into vapour – What is evaporation?
apour turns into water – What is condensation?

UMENT DEFINITIONS

nermograph – What is 'keeps constant record of temperature'?

reather balloon – What is 'used to gather information about storms'?

adiosonde – What is 'used to gather information about storms'?

nemometer – What is 'measures the speed of the wind'?

reather satellite – What is 'sends pictures of the weather to earth'?

UMENT NAMES

neasures amount of rainfall – What is a rain gauge?
neasures air pressure – What is a barometer?
neasures humidity in the air – What is a psychrometer?
res temperature – What is a thermometer?
ares direction of wind – What is a weather vane?

HER MEASUREMENTS

neasured in inches or millimetres – What is rain?
neasured in millibars – What is air pressure?
neasured on a centigrade or fahrenheit scale – What is temperature?
neasured by north, south, east, or west – What is wind direction?
neasured in miles per hour or knots - What is wind speed?

R WEATHER FACTS

000 millibars – What is the average air pressure? arries a radiosonde to earth – What is a parachute? as used to keep weather balloons afloat – What is helium or hydrogen? pecial pilots who track hurricanes – Who are hurricane hunters? enter of a storm – What is the eye?

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