

WEATHER UNIT TEST
STUDY GUIDE

NAME _____

FORMAT:

- 25 MULTIPLE CHOICE
- 10 FILL IN THE BLANKS WITH A WORD BANK OF 20 WORDS
- 5 TRUE/FALSE FILL IN THE CORRECT WORD IF FALSE (NO BANK)
- 6 SHORT ANSWER QUESTIONS
- 1 Weather Map

STUDY AT A MINIMUM:

- ☐ X-WORD PUZZLES AND ANY PACKETS CONTAINING X-WORD RELATED MATERIALS
- ☐ THIS STUDY GUIDE
- ☐ STUDY GUIDE RELATED TOPICS IN ANY PACKETS

ALSO KNOW:

DESCRIBE WHAT EARTH WOULD LOOK LIKE IF IT DID NOT HAVE AN ATMOSPHERE. (3 CONDITIONS)

DESCRIBE ALL OF THE SCIENTIFIC INSTRUMENTS COVERED IN THE UNIT AND KNOW WHAT THEY ARE USED FOR.

DESCRIBE WHAT CAUSES WIND.

LIST 5 TYPES OF PRECIPITATION.

DESCRIBE A FRONT AND BE ABLE TO LIST 4 TYPES

BLIZZARD
TORNADO
HURRICANES
FLOOD
T-STORM

TORNADO

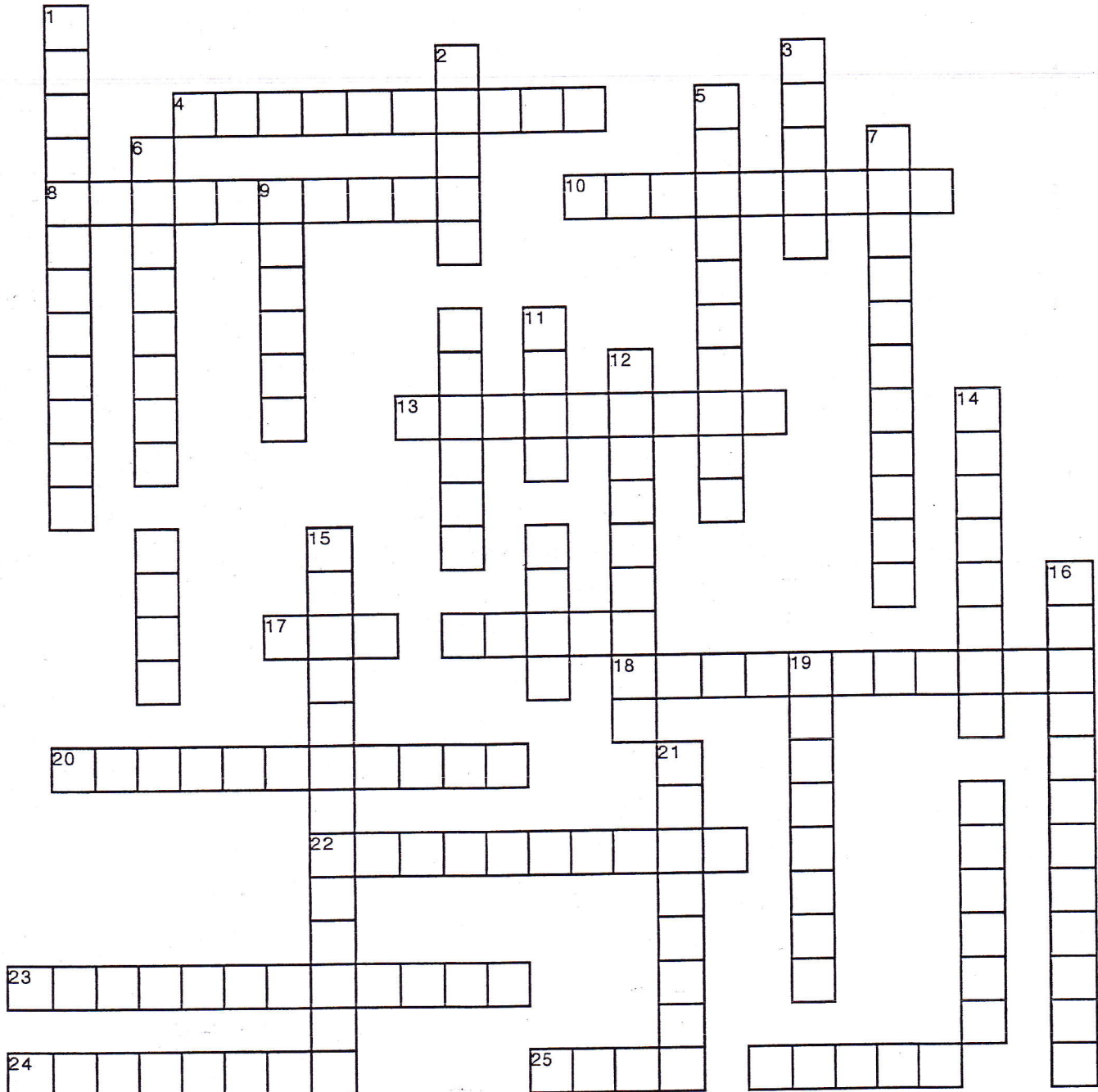
HURRICANES

FLOOD

T-STORM

Weather Unit Review
Date _____

Name _____



nitrogen, barometer, temperature, troposphere, psychrometer
clouds, precipitation, ocean, cold front, hurricanes, flash floods
tropical zone, decreases, wind vane, prevailing, twenty-one
occluded, cumulonimbus, hurricanes, condensation, mountains
evaporation, Coriolis Effect, dew point, windward

Across

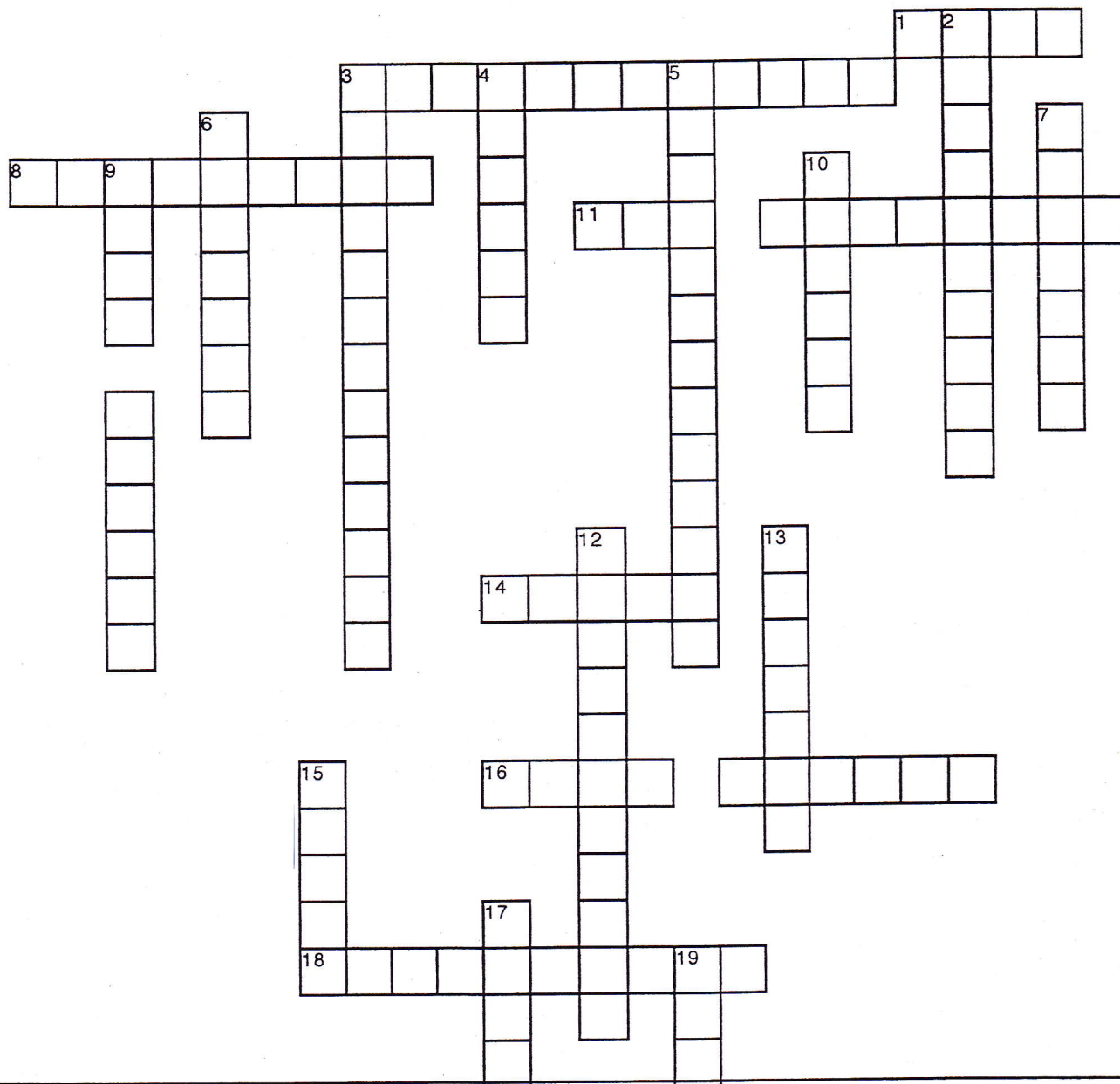
- | | |
|---|---|
| 4) global winds that blow from the southwest to the northeast are called _____ westerlies | 8) large tropical storms that bring a storm surge, high winds, and heavy rain |
| 10) as the density of air decreases, its pressure ____ | 13) the combination of prevailing winds and the location of ____ can affect precipitation |
| 17) the point at which condensation begins, clouds form, and water vapor is visible | 18) water into a gas |
| 20) inner layer or "weather layer" of the atmosphere | 22) percent of oxygen in the atmosphere |
| 23) the type of cloud in which tornadoes occur | 24) most abundant gas in the atmosphere |
| 25) heavy precipitation at first, then cold clear weather after it passes | |

Down

- | | |
|--|--|
| 1) used to measure relative humidity | 2) these are caused by very heavy rainfall |
| 3) a maritime air mass forms over a(an) | 5) most common on the east coast during August, September, and October |
| 6) an area on Earth's surface where the sun's rays are most direct | 7) layers of the atmosphere are classified according to changes in |
| 9) forms when water vapor condenses on dust particles in the air | 11) measures wind direction |
| 12) used to measure air pressure | 14) causes wind to curve due to the rotation of Earth on its axis |
| 15) rain, sleet, freezing rain, and hail are all forms of | 16) evaporation, transpiration, and ____ are parts of the water cycle |
| 19) when two air masses cut off another air mass from the ground | 21) the side of the mountain where precipitation is most likely to occur |

Weather Unit Review #2
Date _____

Name _____



hurricanes, continental, micro-climate, land breeze, watch
weather, front, eye, leeward, increases, atmosphere
psychrometer, wind, precipitation, tornado, fronts, cold fronts
air pressure, cirrus, rain

Across

- 1) most common type of precipitation 3) measures relative humidity
8) air pressure decreases as altitude 11) differences in this cause wind

14) a place where air masses meet and do not mix

18) a tropical storm with winds at 119 KPH or higher

Down

2) if Earth had no _____, water would not exist, Oxygen would not exist, radiation and meteoroids would make life impossible

4) stratus, cumulus, and _____ are the three main types of clouds

6) conditions of Earth's atmosphere at a particular time and place

9) bring rapid changes in weather and falling temperatures

12) air masses that form over land

15) bad weather is possible

19) center of a hurricane

16) the movement of air from land to a body of water is called a(an)

3) rain, sleet, snow, hail, and freezing rain

5) a small area with specific climate conditions like an area of a city with very tall buildings

7) go to the basement, center of a one story dwelling, avoid windows if a _____ approaches and you are indoors

10) cold, warm, stationary, and occluded are all types of

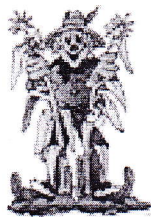
13) the drier side of a mountain

17) this is caused by changes in air pressure

What are the five common types of precipitation? (2-5)		List safety precautions for tornadoes- at home and outside. (3-2)	
Name 2 instruments that help to forecast weather. (1-3; 2-3)		What is a front? (3-1)	
Describe how both of those instruments help to forecast the weather. (1-3; 2-3)		What are the four main types of fronts? (3-1) *S ↓ * O * W * C	Match to the names of fronts. (3-1) * 2 cool masses cut off warm air mass. *brings cool clear weather. *brings showers then warm, humid air. *weather stays the same for days.
What could happen to life on Earth without an atmosphere? Give 3 examples. (1-1)		What type of air masses form over land? (3-1)	
How are tornadoes formed? (3-2)		What type of air mass forms over water? (3-1)	

Are winds named for where they blow from or where they blow to? (2-3)		Name the 2 main gases in the atmosphere and give their percents. (1-1)	
Name a very large tropical storm with winds of 119 km/hr. (3-2)		What are the four main layers of the atmosphere? Circle the Weather layer. (1-4)	
What are the most common months hurricanes occur? (3-2)		How are the layers of the atmosphere classified? (1-4)	
What is the center of a hurricane called? (3-2)		What instrument measures air pressure? (1-3)	
What is the difference between a Flood Warning and a Flood Watch? (3-3)		Write the definition of weather. (1-1)	

Name the 3 main parts of the water cycle. (2-4)		What is the difference between a wind vane and anemometer? (2-3)	
What are the main factors that affect precipitation? (4-1)		Define evaporation. (2-4)	
What is the difference between leeward and windward side of a mountain? (4-1)		At what point: *do clouds form *is water vapor visible *does condensation begin (2-4)	
What are the 3 temperature zones the Earth is divided into? (4-1)		When winds curve due to the Earth's rotation, it is known as? (2-3)	
What causes the temperatures in the Tropical Zone to be the highest? (4-1)		What are the three main types of clouds? (2- 4)	



Name _____

Weather Unit Review - Word Search

Instructions: Find and circle all the words in the word search from the word bank below.

NTEERMMESEMICROCLIMATEBOOP
AATOLOAORCESMIEJDHNVD OEHY
BURACMKRLOTRPSSNGNIATRLDRH
IFONQCNNINRHCMREOOMSGV LLEE
RAINFALLSTRATUSEVAPORATION
LLUENEPURIIIIYNTJSASARHDWS
GLGATELBDNTMONTHILDICOU PAC
EISEPQNIDECREASESFRONTRSTH
ENORUTIALNDCORIO LISCHTRYOX
IGDSRQWEATHERPRRRRPLOEEICZN
TNPHETITNAIMDWINDVANEMCHML
EWZVCENODLLPGEECBUIDCPARCM
IHIIDOPTBDLPAOWEATHERENOUT
WSENELNRRNEEETBPRLMNAREMMA
EGPIDMRDEONYWMPTOROSYAREUO
XQCIOWLIECPIEPVRMIOELTATLV
DHPTROAUZN IOTDAFEGNSSUREOS
NONADNERETSPSOOLTSC THRCRNE
RCLIMATEDEEAAIPRPEHSNEETCIE
OOPEEIPRLAHHTTHGRHUUISEEMA
UGOINCREASESEXIAEETRNR OGZBN
SSXCRFLEEWARDIOTRNETWEFIUL
VNYASCMCSECYCUJNIEDYWELISG
POGIGQPATMOSPHEREOVNNRROSB
YWELCDNIQWARNINGLLNEBFLERA
NUNHAREEHURRICANESARLFEPUG

Word Bank:

decreases	Continental	Nitrogen	Stratus	Warning
Snow	increases	Climate	Psychrometer	cumulonimbus
occluded	windward	Eye	Evaporation	weather
tropical	Coriolis	maritime	land breeze	Front
weather	Troposphere	Wind Vane	precipitation	Barometer
Hurricanes	Leeward	Condensation	condenses	hurricane
Temperatures	atmosphere	rain	microclimate	rainfall
Dew Point	oxygen	pressure	falling	

Clue: As the density of air decreases, its pressure _____

Clue: This falls when humid air cools below 32 degrees Celsius

Clue: Prevailing winds and the presence of mountains are the two main factors that affect _____

Clue: When a warm air mass moves up the side of a mountain it will most likely precipitate on the _____ side

Clue: A _____ storm with winds of 119 km per hour or higher and as large as 600 km across is called a hurricane

Clue: The movement of air from land to a body of water is called a _____

Clue: This measures air pressure

Clue: This type of air mass forms over land

Clue: The three main types of clouds are cumulus, cirrus and _____

Clue: This is used to measure relative humidity

Clue: This is the type of cloud that tornadoes form in

Clue: The center of a hurricane is called the _____

Clue: This is the process by which water molecules escape into the air as water vapor

Clue: This effect causes the winds to curve due to the Earth's rotation

Clue: This forms when air masses meet

Clue: The inner layer, or _____

Clue: Rain, sleet and hail are all forms of _____

Clue: The land on the _____ side of a _____

Clue: The most abundant gas in the atmosphere

Clue: A flood _____ means that flooding is possible

Clue: Air pressure decreases as altitude _____

Clue: This is when two cool air masses cut a warm air mass off from the ground. This is what kind of front _____

Clue: the conditions of Earth's atmosphere at a particular time and place make up the _____

Clue: An air mass that forms over an ocean is called _____

Clue: A cold front usually brings cool, clear _____

Clue: This is used to measure wind direction

Clue: _____ that strike the East Coast of the United States are most common in the months of May, June and July

Clue: This is a very large _____