



**EZPZ**

**Escape!**



<http://bit.ly/2uDNttk>

**MOTHER NATURE'S FURY**



# EzPz Escape WEATHER & CLIMATE

## Your mission

Mother Nature has unleashed her fury. The weather has reached high levels of danger and you must seek immediate safety. Use your knowledge of weather and climate to make an EzPz Escape! You must answer the questions at each station in order to get the secret code that will unlock the room getting you closer to making an EzPz escape! Record your answers on your student recording sheet and use the secret decoder at the end of each station. Escape before it's too late. Good Luck!

# STATION 1

## Weather

The boundary between cold and warm air masses is called a \_\_\_\_\_.

- A. front
- B. storm
- C. climate
- D. flood

Q1

# STATION 1

## Weather

A \_\_\_ studies and forecasts the weather using data gathered from many sources.

- E. meteorologist
- F. biologist
- G. geologist
- H. geographer

# STATION 1

## Weather

When water droplets in a cloud combine, become too heavy, and fall to the ground as rain, snow, sleet or hail, we are experiencing \_\_\_\_.

- J. evaporation
- K. precipitation
- L. condensation
- M. transpiration

# STATION 1

## Weather

Weather is described as \_\_\_\_.

- R. the state of the atmosphere at any particular time
- S. the amount of moisture in the air
- T. the number of clouds in the sky
- V. the speed of the wind

# STATION 1

## Weather

Use the decoder to get the lock combination.

A	9	J	3
B	7	K	1
C	2	L	5
D	5	M	9
E	4	R	2
F	6	S	4
G	8	T	3
H	1	V	7

Enter the 4 digit code to open the lock  
to move to the next room.



# STATION 2

## Climate

Climate is the weather \_\_\_\_\_.

- A. closer to the equator
- B. at the poles
- C. of a region averaged over a long period of time
- D. changes from day to day

**Q1**



# STATION 2

## Climate

Which receives the most solar radiation?

- A. the oceans
- B. the polar zones
- C. the temperate zones
- D. the tropics

Q2

# STATION 2

## Climate

The two main factors that determine the climate of a region are \_\_\_\_.

- A. altitude and pressure
- B. precipitation and temperature
- C. altitude and temperature
- D. pressure and temperature

# STATION 2

## Climate

Which of the following describes a polar climate?

- A. Solar energy hits these regions at a low angle.
- B. Temperatures in these zones are moderate.
- C. These regions lie between latitude  $23^{\circ}$  North and  $23^{\circ}$  South.
- D. Year round temperatures are always hot.

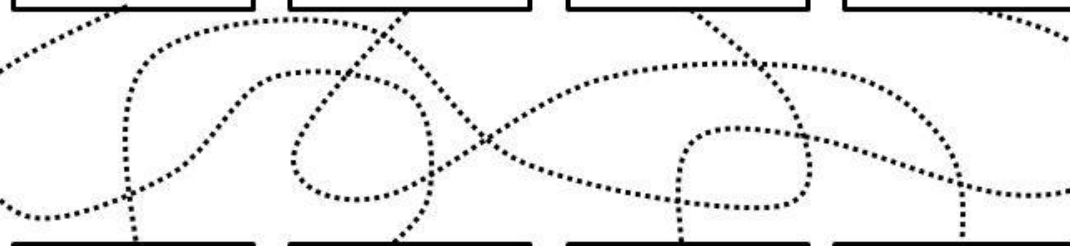
**Q4**

# STATION 2

Climate

Use the decoder to get the lock combination.

Q1	Q2	Q3	Q4
LETTER 1	LETTER 2	LETTER 3	LETTER 4



Enter the 4 letter code to open the lock  
to move to the next room.



# STATION 3

## Severe Weather

What type of severe weather is described as a violent, whirling wind that moves in a narrow path over land?

- A. hurricane
- B. water spout
- C. tornado
- D. tsunami

**Q1**

# STATION 3

## Severe Weather

What severe weather is described as a large, swirling, low pressure system that forms over the warm oceans?

- A. hurricane
- B. water spout
- C. tornado
- D. tsunami

# STATION 3

## Severe Weather

What is a winter storm whose winds are 56 km/h, low temperature, visibility is less than 400m in falling or blowing snow, and these conditions persist for 3 hours or more?

- A. hail storm
- B. flooding
- C. hurricane
- D. blizzard

**Q3**

# STATION 3

## Severe Weather

What is the biggest danger posed by thunderstorms?

- A. getting struck by lightning
- B. falling hail
- C. heavy winds
- D. shaking of the earth



# STATION 3

## Severe Weather

Use the decoder to get the lock combination.

Q4	↓	←	↑	→
Q3	←	→	↓	↑
Q2	→	↑	↓	←
Q1	↑	→	←	↓
	A	B	C	D

Enter the 4 direction code to open the lock  
to move to the next room.



# STATION 4

## Weather Instruments

Which of the following weather instruments measures air pressure?

- A. barometer
- B. thermometer
- C. psychrometer
- D. anemometer

**Q1**

# STATION 4

## Weather Instruments

Which of the following weather instruments measures wind speed?

- E. wind vane
- F. anemometer
- G. barometer
- H. thermometer

# STATION 4

## Weather Instruments

Which of the following weather instruments measures relative humidity?

- J. barometer
- K. anemometer
- L. psychrometer
- M. thermometer

**Q3**

# STATION 4

## Weather Instruments

Which of the following weather instruments measures wind direction?

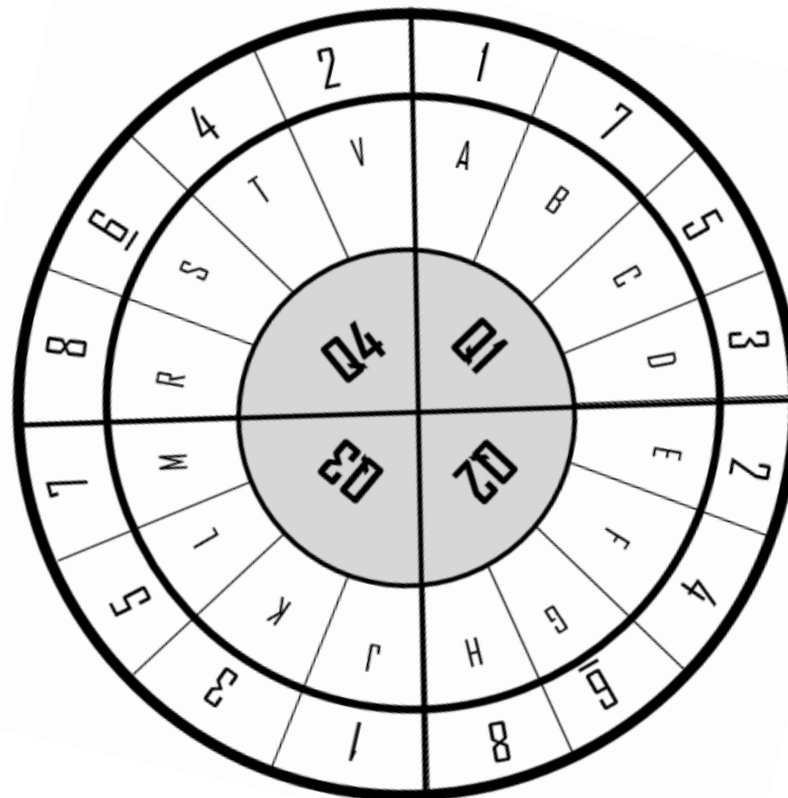
- R. weather vane
- S. anemometer
- T. sling psychrometer
- V. weather balloon

Q4

# STATION 4

## Weather Instruments

Use the decoder to get the lock combination.







Enter the 4 digit code to open the lock to move to the next room.



# STATION 5

## Weather Symbols

Which of the following weather symbols represents a stationary front?

- A. 
- B. 
- C. 
- D. 

Q1

# STATION 5

## Weather Symbols

Isobars help meteorologist \_\_\_\_\_.

- E. predict dry weather
- F. tell how fast the wind is blowing by noting how closely isobars are placed on a weather map
- G. tell how fast wind is blowing by noting how far apart the isobars are placed on a weather map
- H. see areas of equal temperatures

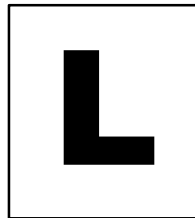
**Q2**



# STATION 5

## Weather Symbols

Areas of low-pressure usually have  
—•



- J. descending air
- K. good weather
- L. cloudy weather
- M. light winds

# STATION 5

## Weather Symbols

What can be concluded about the weather using the station model below?



- R. It is completely overcast.
- S. Wind is traveling from the northwest.
- T. The dew point is 76.
- V. It is currently snowing.

Q4

# STATION 5

## Weather Symbols

Use the decoder to get the lock combination.

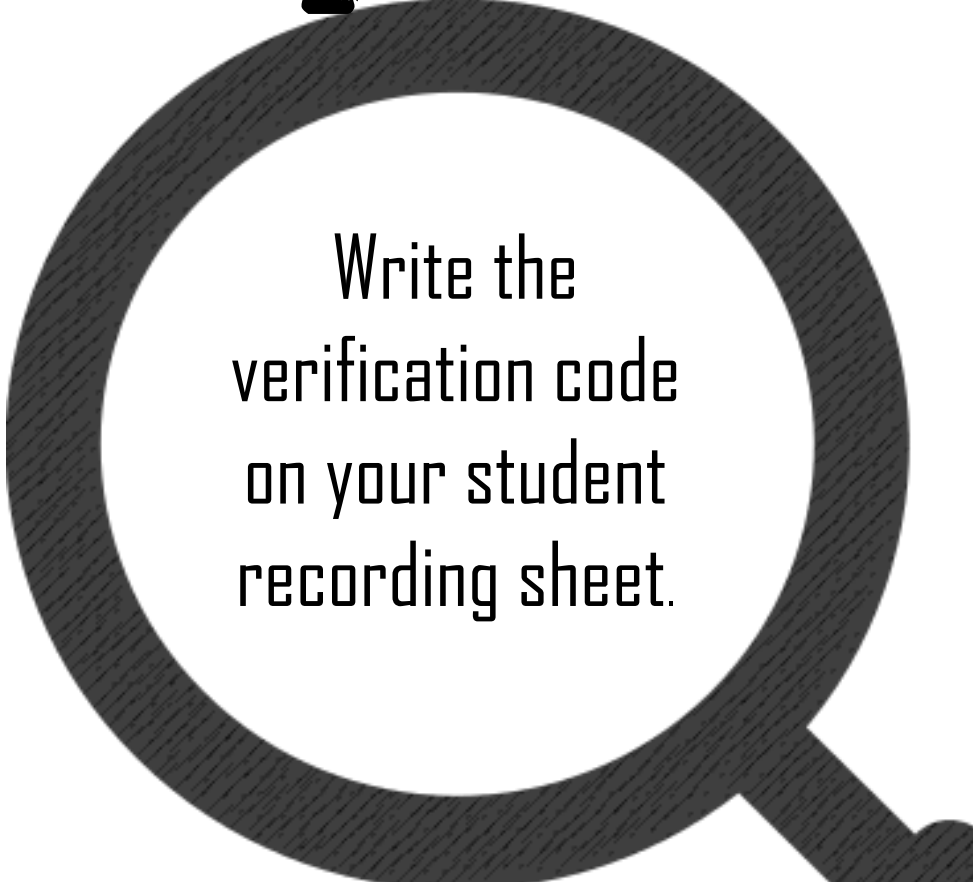


Enter the 4 digit code to open the lock  
to make an EzPz Escape!



# CONGRATULATIONS!

You have made an  
**EzPz Escape!**

A large magnifying glass graphic with a dark grey handle and frame, and a white circular lens. The text is centered within the lens.

Write the  
verification code  
on your student  
recording sheet.