## Quiz 4

- Due Apr 29 at 11:59pm
- Points 100
- Questions 10
- Available until Apr 29 at 11:59pm
- Time Limit 15 Minutes

## Instructions

This quiz is on the atmosphere (lecture 12 and chapter 8).

- · Time limit: 15 minutes
- The timer continues even if you exit the quiz
- One attempt
- Open book/note

Quizzes have no due dates, but all quizzes must be completed by April 29, 2024.

## **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	7 minutes	100 out of 100

Score for this quiz: 100 out of 100

Submitted Apr 12 at 1:36pm

This attempt took 7 minutes.

Question 1

10 / 10 pts

What is an atmospheric front?

the location where an air mass first develops its defining characteristics

#### Correct!

- the boundary between different air masses
- the location in an air mass where the isobars start to become more widely spaced
- the direction an air mass is moving in response to the pressure gradient force, friction, and the Coriolis effect

ii

Question 2

10 / 10 pts

Using the wind directions in this video, what type of air mass is located in the middle of Nebraska?

0:00 / 0:03

#### Correct!

- Low pressure
- High pressure

Question 3

10 / 10 pts

An occlude front forms when

two warm fronts combine.

#### Correct!

- an advancing cold front overtakes a warm front.
- an advancing warm front overtakes a cold front.
- two cold fronts combine.

H

### Question 4

10 / 10 pts

Atmospheric pressure is a result of

#### Correct!

- the weight of the column of air above a location.
- winds blowing over the surface.
- heat contrasts on the surface.
- the density of the atmosphere.

Question 5
10 / 10 pts
The term that describes the average atmospheric conditions over long time periods, like decades, is
median weather
steady state
Correct!
climate
<ul><li>weather</li></ul>
Question 6
10 / 10 pts
High pressure air masses form when
relatively warm air sinks
relatively cooler air rises
relatively warm air rises
Correct!
relatively cooler air sinks
Question 7
10 / 10 pts
The most abundant gas found in the Earth's atmosphere is
oxygen.
Correct!
nitrogen.
o argon.
Carbon dioxide.
Question 8
10 / 10 pts
True/False: Heat is the measurement of how fast atoms are moving and describes how hot or cold a
substance is.
True

Correct!

4/12/24, 1:36 PM

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False
Question 9
10 / 10 pts
The magnitude of the Coriolis force as the size of an object increases.
remains the same
Correct!
increases
Odecreases
Question 10
10 / 10 pts
When water evaporates it
becomes denser
Correct!
<ul><li>absorbs heat</li></ul>
<ul> <li>starts to form clouds</li> </ul>
<ul><li>releases heat</li></ul>

Quiz Score: 100 out of 100

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# **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	12 minutes	100 out of 100
Score for this	quiz: 100 out of 100		
Submitted Apr	· 10 at 1:45pm		
This attempt t	ook 12 minutes.		
•••			
Question 1			
10 / 10 pts			
altitude			
Correct!			
temperature			
atmospheric	pressure		
o wind speed			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			

Question 2
10 / 10 pts
High pressure air masses form when
relatively cooler air rises
Correct!
relatively cooler air sinks
orelatively warm air rises
relatively warm air sinks
Question 3
10 / 10 pts
99.9% of the Earth's atmosphere exists withinof Earth's surface.
O 100 kilometers
Correct!
50 kilometers
○ 5.0 kilometers
O 0.5 kilometers
25 kilometers
Question 4
10 / 10 pts
Latent heat is
Olongwave radiation that is absorbed by greenhouse gases and reradiated back down toward Earth
energy that earth radiates outward toward the atmosphere
energy that Earth's atmosphere receives from the sun
Correct!
energy that is absorbed, stored and released as water changes between liquid, solid, and gas
Question 5
10 / 10 pts
When water evaporates it
starts to form clouds
Correct!
absorbs heat

releases heat
becomes denser
luestion 6
0 / 10 pts
he most abundant gas found in the Earth's atmosphere is
carbon dioxide.
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orrect!
nitrogen.
argon.
Question 7
0 / 10 pts
0:00 / 0:03
High pressure
orrect!
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10 / 10 pts
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the location in an air mass where the isobars start to become more widely spaced
the location where an air mass first develops its defining characteristics
Correct!
the boundary between different air masses
Question 10
10 / 10 pts
The term that describes the average atmospheric conditions over long time periods, like decades, is
O median weather
O weather
Correct!
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## Attempt History

	Attempt	Time	Score	
LATEST	Attempt 1	11 minutes	100 out of 100	
Score for this of	quiz: 100 out of 100			
Submitted Apr	23 at 7:32pm			
This attempt to	ook 11 minutes			

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Question 1

10 / 10 pts

High pressure air masses form when \_\_\_\_\_.

Correct!

- relatively cooler air sinks
- relatively warm air rises
- relatively warm air sinks
- relatively cooler air rises

ii

Question 2

10 / 10 pts

Atmospheric pressure is a result of

<ul> <li>winds blowing over the surface.</li> </ul>
heat contrasts on the surface.
Correct!
the weight of the column of air above a location.
the density of the atmosphere.
Question 3
10 / 10 pts
Latent heat is
Olongwave radiation that is absorbed by greenhouse gases and reradiated back down toward Earth
energy that Earth's atmosphere receives from the sun
energy that earth radiates outward toward the atmosphere
Correct!
energy that is absorbed, stored and released as water changes between liquid, solid, and gas
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10 / 10 pts
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O.5 kilometers
Correct!
50 kilometers
O 100 kilometers
O 25 kilometers
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10 / 10 pts
What is an atmospheric front?
the direction an air mass is moving in response to the pressure gradient force, friction, and the Coriolis effect
Correct!
the boundary between different air masses
the location in an air mass where the isobars start to become more widely spaced
the location where an air mass first develops its defining characteristics

climate

median weather

Question 10

10 / 10 pts

The magnitude of the Coriolis force \_\_\_\_\_ as the size of an object increases.

Correct!

- increases
- remains the same
- decreases

Quiz Score: 100 out of 100