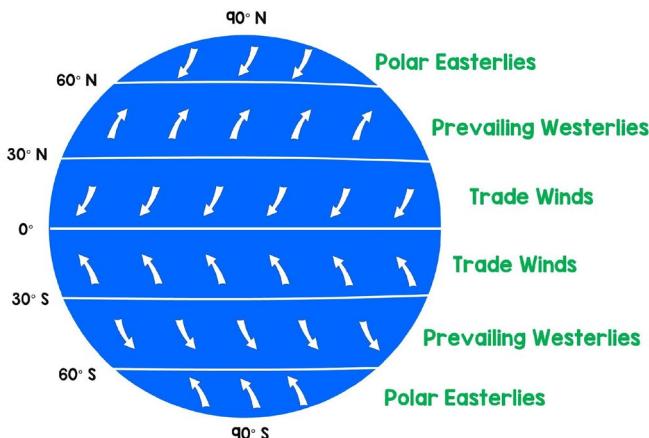


Overview of Global Winds



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Convection in the Atmosphere Interactive Lesson

PRINT and DIGITAL



Compatible with Google Slides and PPT

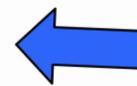
A key is also included!

When an area of the Earth is warmed, warm air rises, expands, creates **low-pressure**.

Cold air sinks and creates **high-pressure**.

air moves from high pressure →

Move the arrow to the correct answer.



When a sea breeze is occurring, the air pressure is lower over the land.

True

False

Drag the words and phrases to the appropriate location.

Land Breeze

Sea Breeze

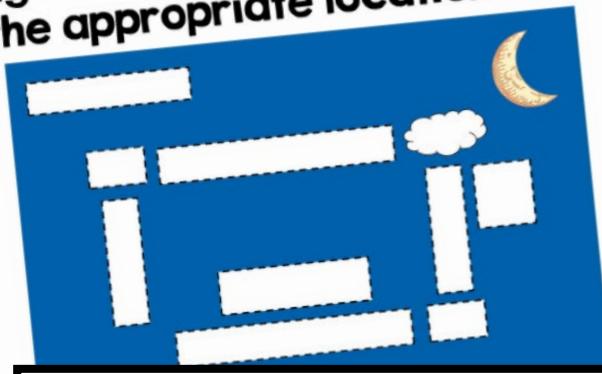
ocean is cooler compared to land

ocean is warmer compared to land

cold air || warm sinks ||

land cools down ||

land heats up ||

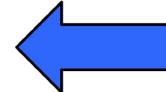


Air moves From high pressure to low pressure and creates wind.

rising air helps to form clouds

(H) (L)

Drag the arrow to the correct answer.



The Coriolis effect contributes to the rotations of cyclones and hurricanes.

True

False

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Drag and Drop



Which of these warms and cools more slowly: land or water? Type in the text box below.

Type here.

Anticipation Guide

Last Slide

Before completing the lesson, read the statements below, think about your prior knowledge, and put an x in the box for true or false (columns 1 and 2). As you go through the lesson, look for evidence to support or refute your ideas. You will revisit this anticipation guide after completing this lesson. For now, only complete columns 1 and 2.

True	False	Statement	True	False	Evidence
		Earth is heated equally.			
		Cold air sinks, which creates low pressure.			
		The Coriolis effect is due to the Earth's rotation.			
		Storms spin counterclockwise in the Northern Hemisphere.			
		Trade winds come together at the westerlies.			
		The United States is mainly impacted by the polar easterlies.			
		Jet streams are wide belts of winds that move from west to east.			
		Water heats and cools more slowly than land.			
		Air moves from low pressure to high pressure.			
		Sea breezes occur during the night.			

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Type in the Text Box



Jet Streams

- wind pattern that occurs **high in the atmosphere**
- fast moving **narrow belts of air**
- move **west to east** high in the ~~atmosphere~~
- ~~Wind~~ the ~~atmosphere~~ ~~is~~ ~~the~~ ~~strongest~~



Complete the following four corners vocabulary activity.

Using the drawing tools, create an illustration of local winds. You may also copy and paste an image from another source.

Write a sentence using the term local winds.

Type here.

Local Winds

Write the definition of the term local winds.

Type here.

Write some words related to the term local winds.

Type here.

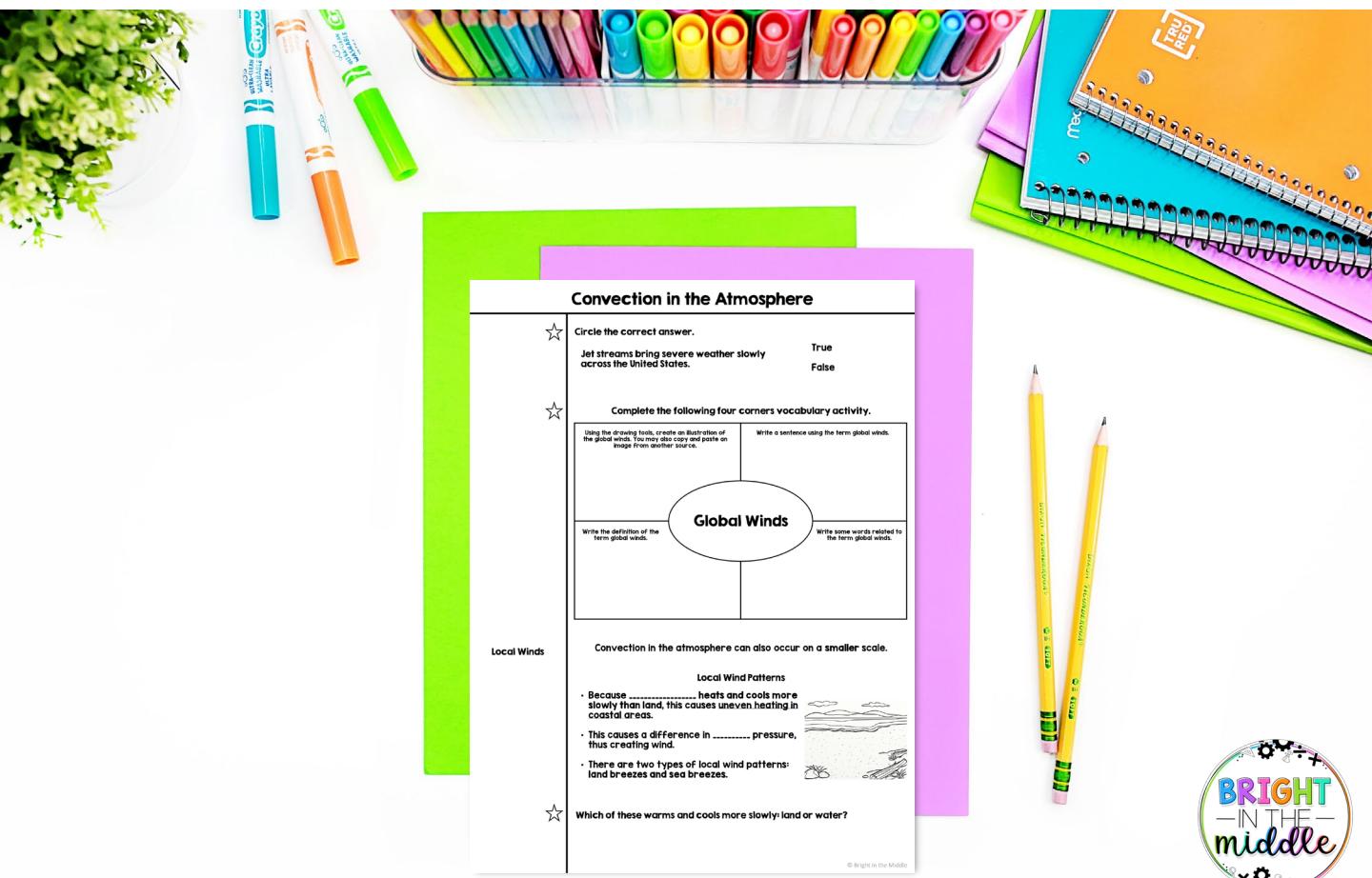
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and more!

A paper version is also included with interactive activities embedded.



Guided Cornell notes are included as well!



Convection in the Atmosphere

Circle the correct answer.

Jet streams bring severe weather slowly across the United States.

True
False

Complete the following four corners vocabulary activity.

Using the drawing tools, create an illustration of the global winds. You may also copy and paste an image from another source.

Write a sentence using the term global winds.

Global Winds

Write the definition of the term global winds.

Write some words related to the term global winds.

Local Winds

Convection in the atmosphere can also occur on a smaller scale.

Local Wind Patterns

- Because _____ heats and cools more slowly than land, this causes uneven heating in coastal areas.
- This causes a difference in _____ pressure, thus creating wind.
- There are two types of local wind patterns: land breezes and sea breezes.

Which of these warms and cools more slowly: land or water?

BRIGHT IN THE middle