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Weather Patterns . Guided Reading and Study

Air Wasses and Fronts

The section also explains how the meeting of different air masses affects weather. This section describes huge bodies of air, called air masses, and explains how they move.

As you read about the four types of fronts, complete the compare-and-contrast table below

Types of Fronts

Front	How It Forms	Type of Weather
Cold front	A cold air mass overtakes a warm air mass.	20
Warm front	b.	c.
Occluded front	d.	e.
Stationary front	ř.	ù

Introduction

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- 2. Scientists classify air masses according to
- Is the following sentence true or false? Polar air masses have low air
- Complete the compare/contrast table showing the types of air masses and their characteristics.

Types of Air Masses and Their Characteristics

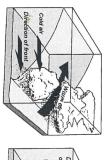
Type or Air Mass	Characteristics
a.	Warm and humid
b.	Cool and humid
c.	Warm and dry
d.	Cool and dry

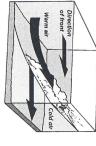
How Air Masses Move

- 5. In the continental United States, major wind belts generally push air masses from to
- How do jet streams affect air masses?

Types of Fronts

7. Label the drawings to indicate a cold front and a warm front.





Match the type of front with how it forms.

Type of Front

- 8. cold front 9. warm front
- 10. stationary front
- _ 11. occluded front

How It Forms

- a. A moving warm air mass overtakes a slowly moving cold air mass.
- b. A warm air mass is caught between two cooler air masses.
- c. A rapidly moving cold air mass runs into a slowly moving warm air mass.

d. A cold air mass and a warm air mass

meet and remain stalled over an area.

- 12. Circle the letter of each sentence that is true about fronts.

- a. Cold fronts can bring violent thunderstorms.b. Warm fronts are associated with clouds and rain.c. Stationary fronts may bring many days of clouds
- d. Occluded fronts always bring fair weather.