

Lesson 3 Weather Forecasts

Skim Lesson 3 in your book. Read the headings and look at the photos and illustrations. Identify three things you want to learn more about as you read the lesson. Record your ideas in your Science Journal.

Main Idea

Measuring the Weather

I found this on page _____.

I found this on page _____.

I found this on page _____.

I found this on page _____.

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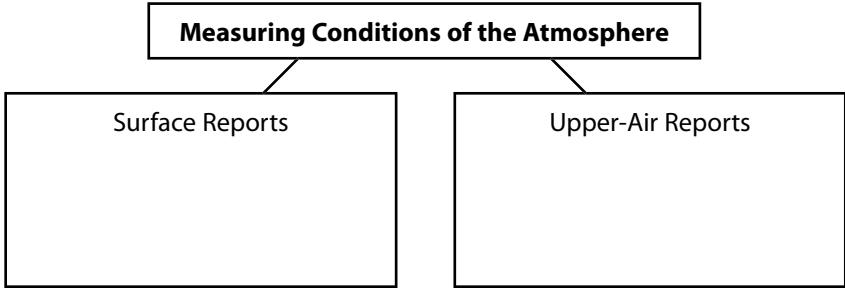
Details

Describe the first step in making a weather forecast, and identify three instruments used to measure weather variables.

Step 1: Measure the condition of the _____ using weather instruments, such as

- a. a _____, which measures air temperature,
- b. a barometer, which measures _____, and
- c. an _____, which measures wind speed.

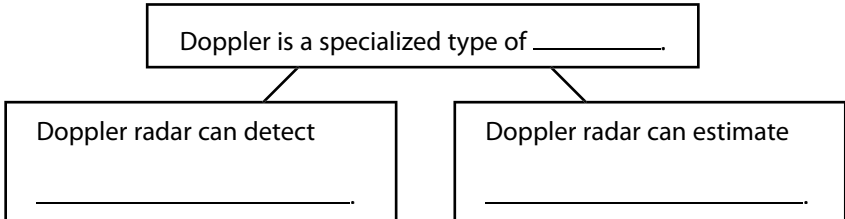
Identify how scientists measure weather conditions in different parts of the atmosphere.



Compare 2 types of satellite images.

Visible Light Image	Infrared Image

Organize information about Doppler radar.



Lesson 3 | Weather Forecasts (continued)

Main Idea

Weather Maps

I found this on page _____.

I found this on page _____.

I found this on page _____.

Details






Identify the types of information displayed on a station model.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____ and _____

Contrast isobars and isotherms.

Isobars	Isotherms

Identify each symbol found on weather maps.

Symbol	Meaning
	
	
	
	
	
* *	
● ●	
H	
L	

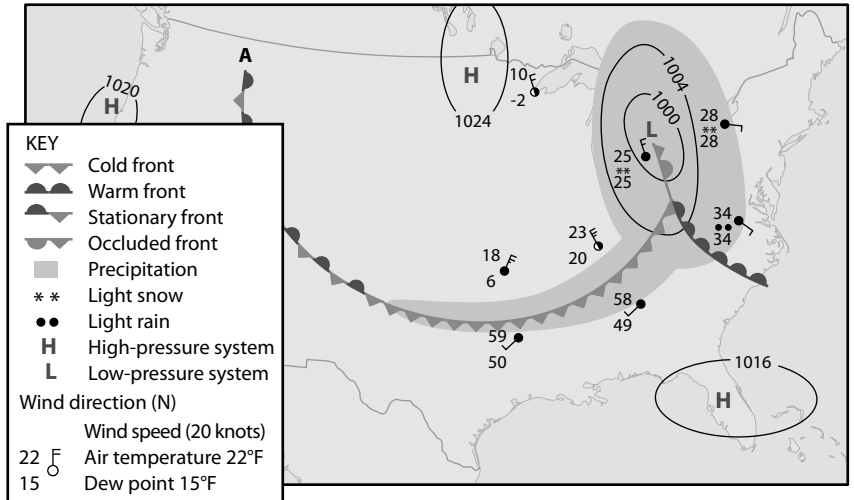
Lesson 3 | Weather Forecasts (continued)

Main Idea

I found this on page _____.

Details

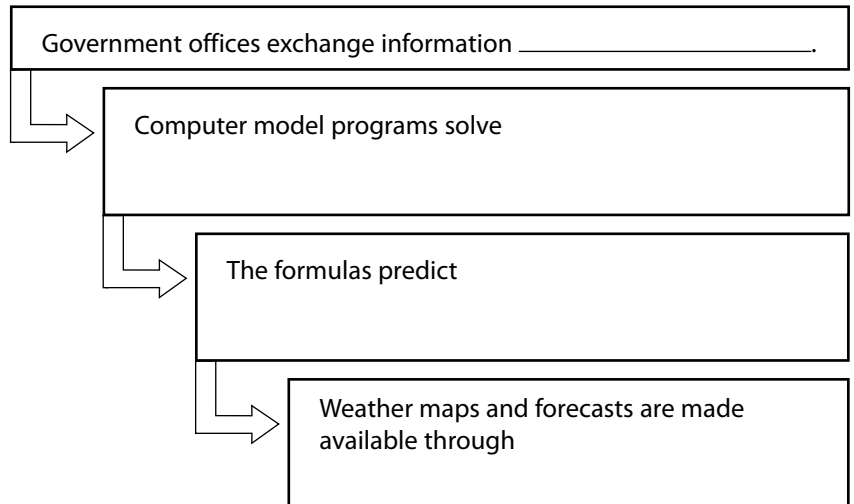
Analyze the weather map. Color a high-pressure area red. Color a warm front yellow. Color an occluded front blue.



Predicting the Weather

I found this on page _____.

Sequence how weather computer models are generated and distributed.



Synthesize It Which type of map would better help you plan next weekend's activities, a station map or a weather map? Explain why.

Chapter Wrap-Up

Now that you have read the chapter, think about what you have learned.

Use this checklist to help you study.

- Complete your Foldables® Chapter Project.
- Study your *Science Notebook* on this chapter.
- Study the definitions of vocabulary words.
- Reread the chapter, and review the charts, graphs, and illustrations.
- Review the Understanding Key Concepts at the end of each lesson.
- Look over the Chapter Review at the end of the chapter.



Summarize It Reread the chapter Big Idea and the lesson Key Concepts. Describe the variables used to measure weather, and explain how weather systems can be used to predict future weather.

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Challenge Design a weather station for your school. What instruments will you use? How will you record the collected data? How could you make the information available to others?