Name: _____

CH 12 Meteorology

SECTION 4 Weather Analysis and Prediction

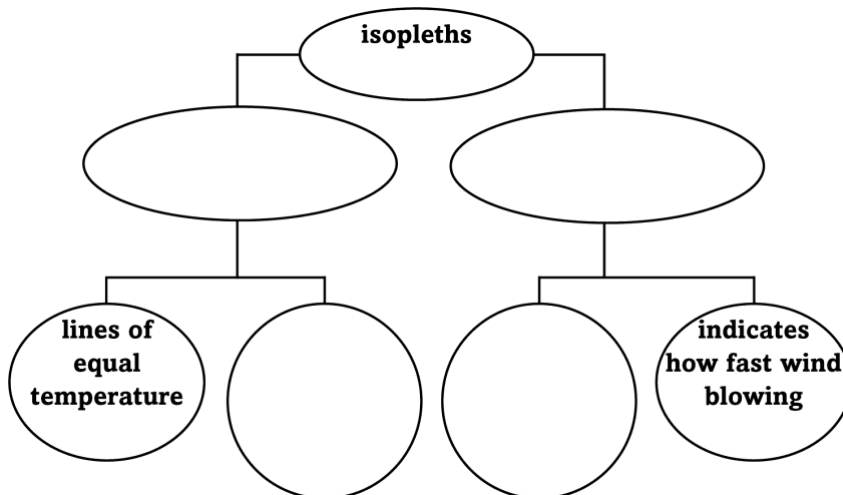| MAIN IDEA	DETAILS
	Consider *the title of Section 4. Think of three things that might be discussed in this section.*
	1. _____
	2. _____
	3. _____
Review Vocabulary	*Use your text to define the following term. What do you think it has to do with weather?*
stability	_____ _____
New Vocabulary	*Read the definitions below, then write the term for each in the left column.*
_____	*a record of weather data at a particular site at a particular time*
_____	*lines of equal pressure*
_____	*lines of equal temperature*
_____	*forecast that relies on numerical data*
_____	*forecast that compares current weather patterns to patterns hat took place in the past*
Academic Vocabulary	*Define the following term.*
extrapolation	_____ _____

Surface Analysis

Use with pages 329–330.

Classify *the different types of isopleths found on a weather map.*

```
                    ( isopleths )
            ┌───────────┴───────────┐
    (                   )     (                   )
    ┌───────┴───────┐         ┌───────┴───────┐
( lines of     )  (          )  (          )  ( indicates     )
( equal        )  (          )  (          )  ( how fast wind )
( temperature  )  (          )  (          )  ( blowing       )
```

Types of Forecasts

Use with page 331.

Categorize *the following phrases as referring to either digital or analog forecasting.*

- compare current conditions to past
- looks at conditions in all levels of atmosphere
- monthly or seasonal forecasts
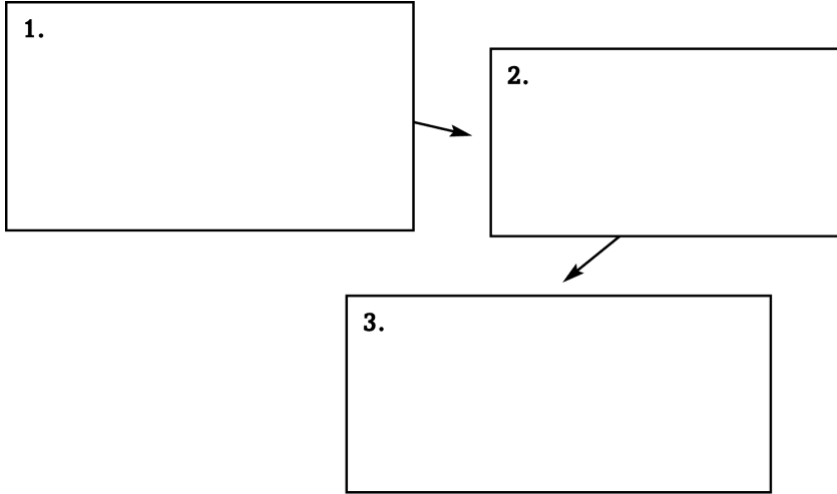- the more data, the more accurate the forecast will be
- numerical data

Digital	**Analog**

Long-Term Forecasts

Use with pages 331–332.

Summarize *three related factors that cause the accuracy of weather forecasts to decline with time. Hint: Page 332; 1st paragraph*

1.

2.

3.

Compare and contrast *short-term forecasting and long-term forecasting. Discuss reliability, the techniques used, and the type of information that is gathered in each case.*

Short-term forecasting	Long-term forecasting

SYNTHESIZE

Imagine you are reading the newspaper forecast and you want to go downhill skiing the next weekend. Describe the type of information you would like to see on the weather map. Include type of front, temperature & pressure.

_____

_____

_____

_____

_____