Learning & Academic Resources

Then begin surveying the assigned chapter. Start with the first heading (headline) and record information on the page or index card you have prepared, asking yourself the six questions listed. Please see the example below.

EXAMPLE:	
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Textbook/Subject:	Fundamental Accounting Principles			
Chapter:	4			
Page Number:	118			
Heading:	PREPARING A WORKSHEET			
WHO?	Who is supposed to prepare a worksheet? Who reads/uses the worksheet one it's prepared?			
WHAT?	What is a worksheet? What are the major sections of the worksheet? What kind of information is put on the worksheet?			
WHERE?				
WHEN?	? When is it appropriate/necessary to prepare a work sheet?			
WHY?	Why is it necessary to prepare a worksheet?			
HOW?	How is a worksheet correctly prepared?			

As you can see, eight potentially useful questions have been asked about this one concept (heading). Sometimes you'll be able to think of two or more questions for one of the six question words, and sometimes you won't think of any. But just get in the habit of asking a lot of questions. Then when you go back to actually read the material, you'll be looking for answers (and maybe even more

#### Active Textbook Studying: Creating Your Own Study Quizzes

188 The JOVIAN PLANETS AND PLUTO

#### Table 11.1US Planetary Probes to the Jovian Planets

Planet	Spacecraft	Arrival Date	Comments
Jupiter	Pioneer 10	Dec 1973	Flyby; Photos
	Pioneer 11	Dec 1974	Flyby; Photos
	Voyager 1	Mar 1979	Flyby; Photos of Jupiter and satellites
	Voyager 2	July 1979	Flyby; Photos of Jupiter and satellites
	Galileo	1988 (?)	Jupiter orbiter and probe
Saturn	Pioneer 11	Sept 1979	Flyby; Photos
	Voyager 1	Nov 1980	Flyby; Photos of Saturn and satellites
	Voyager 2	Aug 1981	Flyby; Photos of Saturn and satellites
Uranus	Voyager 2	Jan 1986	Flyby; deflected to Uranus by gravitational effect of Saturn
Neptune	Voyager 2	Aug 1989	Flyby; deflected to Neptune by Uranus. If the systems and communications with probe remain operative.

## Jupiter's Outer Layers

The first close-up look at Jupiter was provided by Pioneers 10 and 11 in December 1973 and December 1974, respectively. But the really good look came in 1979 when Voyagers 1 and 2 reached Jupiter and transmitted more than 33,000 pictures of the planet and its satellites back to earth. All four of these probes were flybys, but Pioneer 11 and both Voyagers were placed on trajectories such that Jupiter's gravitational deflection on them sent them on toward Saturn. Pioneer 11 passed Saturn in 1979 and the Voyagers in 1980 and 1981.

The surface of Jupiter is crossed with alternate light and dark, brightly colored bands parallel to its equator. The bands abound in detail and as seen telescopically from earth

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#### CREATING YOUR OWN STUDY QUIZZES

\*Questions based on "Jupiter's Outer Layers" handout.

#### **FILL-IN STATEMENTS**

1. Jupiter rotates once in just under \_\_\_\_\_ hours.

2. The Great Red Spot was first seen telescopically from earth in the year \_\_\_\_\_.

3. The Spot has always been far bigger than the \_\_\_\_\_\_.

4. The Spot is a massive eddy with a rotation period of about \_\_\_\_\_\_days.

5. Jupiter has a thin, faint ring in its \_\_\_\_\_ plane.

6. The bands around Jupiter abound in \_\_\_\_\_ and exhibit gradual changes.

7. The chemical composition of Jupiter is very similar to that of the \_\_\_\_\_\_.

8. Pioneer 11 was the first space probe to fly by the planet \_\_\_\_\_\_.

9. The Great Red Spot has been as large as \_\_\_\_\_\_ kilometers across.

10. The chemical composition of Jupiter is about 98% hydrogen and \_\_\_\_\_\_.

#### TRUE-FALSE STATEMENTS (Click to place a checkmark on the correct answer)

1. Jupiter is the most rapidly rotating planet.

TRUE FALSE

2. Jupiter's outer ring is described as being very thick.

TRUE FALSE

3. Jupiter's atmosphere rotates as a solid unit.

TRUE FALSE

#### **MULTIPLE-CHOICE QUESTIONS**

- 1. Which space probe was the only one to fly by both Uranus and Neptune?
  - a. Pioneer 10
  - b. Galileo
  - c. Voyager 1
  - d. Voyager 2

- 2. Trace constituents detected in Jupiter's atmosphere include
  - a. methane and ammonia
  - b. oxygen
  - c. oxygen and carbon and neon
  - d. methane and carbon

# Studying with a Partner or Group

How'd you do?

The final segment has to do with improving your strategy for studying with others; whether that's with another or in a small group (no more than 4 is best).

### What are the suggested steps?

- 1. Divide up the chapters. Explain:
- 2. Make a quiz up for your chapter. Explain:
- 3. Meet up and quiz each other. Explain:
- 4. Score and discuss the wrong answers. Explain:
- 5. Share quiz copies for all to take and use for follow-up studying. Explain:

What's your most challenging class this semester?

Which two of these prediction techniques will you use with that class?

Technique 1:

Technique 2:

When will you use them?

Congratulations on completing this important video workshop! You have completed the first of five workshops on testing. Now you are better prepared to predict possible test questions and how to create self-quizzes for yourself, which will help you prepare for tests. May we suggest that you follow up with the *How to Remember for Tests* video next?

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