Reading Guide *Discovering the Universe* 10e by Comins & Kaufmann

Chapter	Re	eading Guidelines
1	•	Read carefully from the beginning through section 8.
	-	Just skim over sections 9 and 10 quickly.
	•	Read section 11 carefully.
	•	In the last part on "Eclipses" you only need to know the difference between a
		lunar and a solar eclipse; the details of the various types are not on the test.
2	-	Read carefully from the beginning through section 2.
	•	Read section 3 but you do not need to know the planetary alignments.
	•	Read all the rest of the chapter carefully except you can just skim Toolbox 2-2. (It
		is actually very important, but we don't need all the details. The concepts will
		come up again when we discuss solar system formation in Chapter 5.)
3	-	Read carefully from the beginning through section 11.
	-	Beginning with section 12, none of that is necessary for the test. It is interesting if
		you want to learn how telescopes detect non-visible radiation, about the various
		space telescopes, and forward-looking technologies.
4	-	Read allcarefullyexcept just skim over Toolbox 4-2 (it isn't on the test).
5	-	Pay special attention to the first 10 sections.
	-	Beginning with "Exoplanets – Planets Outside Our Solar System" read through to
		the end but don't get bogged down in the details; they're not on the test.
6	•	Read only section 7. A better illustration is in the "Supplementary Materials"
		section of Blackboard.
7 – 9	•	No formal reading assignments (no reading questions). These chapters may be
		useful when completing homework assignments.
10	•	Read starting with "The Sun's Interior" plus sections 7 and 8.
	•	Also pay attention to Toolbox 10-1. Key concepts are (1) thermonuclear fusion,
		(2) hydrogen fusion (or "burning"), and (3) hydrostatic equilibrium.
11	•	Read the first nine sections thoroughly.
	•	When you get to "Stellar Masses" you should skim over the intro and section 10,
		read section 11 thoroughly (very important), and then skim through to the end.
12	-	Read the beginning through section 2 but don't get bogged down in details; our
		coverage of star formation will be very brief.
	-	Read sections 3 and 4 more carefully; it's important.
	•	Just skim through section 5 quickly.
	-	Pay attention in section 6; this is also important.
	•	After section 6 definitely read carefully through section 11: this is the bulk of the
		material we're interested in within this chapter.
	-	Starting with the part on "Variable Stars" just skim.
	-	Do pay attention in section 14 about clusters, especially Figures 12-30 and 12-31;
		one of your Ranking Tasks covers this material and I'll talk briefly about it.
	-	From section 15 through the end, just briefly look at the bold things and pictures
		(but we will have to discuss close binaries since they can affect stellar evolution).

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Chapter	Reading Guidelines
13	<ul> <li>Read carefully from the beginning through section 6.</li> </ul>
	<ul> <li>In sections 7 through 9 just skim (SN 1987a is an important example we'll discuss</li> </ul>
	very briefly).
	<ul> <li>In the sections on "Neutron Stars and Pulsars" you only need to read enough to</li> </ul>
	get a <u>general</u> idea of what each is. The details aren't on the test.
	<ul> <li>Just skim section 12 through the end; those details aren't on the test.</li> </ul>
14	<ul> <li>No formal reading assignment (no reading questions).</li> </ul>
15	<ul> <li>Read all of the chapter carefully except you can just skim over Toolbox 15-1 and</li> </ul>
	section 4 (the galactic center is extremely complicated and the details aren't on
	the test).
16	<ul> <li>Read all of the beginning through section 8.</li> </ul>
	<ul> <li>In section 9 look to see where they define the "Local Group" then skip the rest of</li> </ul>
	that section.
	<ul> <li>Skim section 10.</li> </ul>
	<ul> <li>Read sections 11 through 14, Toolbox 16-1, and the Guided Discovery on "The</li> </ul>
	Expanding Universe" (all very important).
	<ul> <li>Skim section 15 but you can skip the Guided Discovery on "The Tully-Fisher</li> </ul>
	Relation"
17	<ul> <li>No formal reading assignment (no reading questions).</li> </ul>
18	<ul> <li>Read all from the beginning through section 5, especially Toolbox 18-1.</li> </ul>
	<ul> <li>After section 5, just skim all the way through section 9 (it's important for</li> </ul>
	background and context but the details won't be on the test).
	<ul> <li>Beginning with section 10, read more carefully – it's an important transition in</li> </ul>
	the evolution of the Universe.
	• Give some attention to sections 11 and 12 but don't get tangled up in the details.
	<ul> <li>You should read from section 13 all the way to the end but don't get bogged</li> </ul>
	down in the details. You can skip the Guided Discovery on "Superstring Theory"
19	<ul> <li>Read all of it but don't get bogged down in the chemistry and biology; these</li> </ul>
	details won't be on the test. Key ideas to note are: the Miller-Urey experiment,
	the Drake equation, the habitable zone around a star, and the status of the
	search for extraterrestrial life (how have we been looking? why use the
	techniques we do? etc.).