

**Science 9 Astronomy Unit.** Section & title: \_\_\_\_\_

Purpose: You and your assigned partner/s will become experts on your assigned section and you will be marked individually on your LOG entries and on your Section presentation.

'11-12		LO G	GROUP WORK (#oftextpages-ave/group)
We	Dec14	<a href="#">10.1</a>	A/B partners; project /9p-2
Thr	Dec15	<a href="#">10.2</a>	A/B partners; project /7p-2
Fri	Dec16		<b>Winter break</b>
Tue	Jan3	<a href="#">11.1</a>	A/B partners; project /13p-3
We	Jan4	<a href="#">11.2</a>	A/B partners; project /13p-3
Thr	Jan5**	<a href="#">11.3</a>	A/B partners;project/ 9p-2
Fri	Jan 6	<a href="#">12.1</a>	A/B partners; project /15-4
Mon	Jan 9	<a href="#">12.2</a>	A/B partners; project / 5p-1
Tue	Jan10	<a href="#">12.3</a>	A/B partners project /17-4
We	Jan 11		<b>Presentation Prep</b>

<b>Jan 3 to Jan 17, 2012, finish test corrections in 412 at 11:32 M-T ☺</b>			
Thr	Jan 12	10.1	10.2
Fri	Jan 13	11.1	11.2
Mon	Jan 16	11.3	12.1
Tue	Jan 17	12.2	12.3
We	Jan18	Quizzes Ch 10,11,12 & lognotes / NBC	
Thr	Jan 19	Test Corrections /150	
Fri	Jan 20	Unit 4 Test	
Mon	Jan 23	Exam Review	
Tue	Jan 24	A(9-11);C(1-3) <b>Sc Exam</b>	
We	Jan 25	B(9-11); D(1-3)	

**Dec14, 2011 to Jan 10, 2012:**

- First 40 to 50 minutes: Partner/Class work and filling in your LOG.
- Second part of class time: all groups will be working on their TWO section activities (using textbook), preparing power-points, videos or answering their CYU questions &/or preparing the section presentation using the links on my site: <http://www.dupuis.shawbiz.ca/09astronomynotes.htm> Teacher's manual is available for students to prepare their lesson. ☺
- \*\* Type the answers to your section CYU, save it as Section#yourfirstname.doc (ex: 10.1Madeleine) and place your corrected copy of CYU answers (one per group), in my INBOX on the X drive, by Jan 5 or email it to [ndupuis@sd61.bc.ca](mailto:ndupuis@sd61.bc.ca) – type your document name in subject title please.

**Jan 12 to Jan 17 - Preset Presentations:**

- The maximum time allowed for your presentation is 35 minutes. You may use the Section notes, quizzes and crosswords on my site. You may use the Overhead, LCD projector with computer &/or DVD player, power points... Please ensure your power point is 80% pictures – NOT too wordy!! Bring your project on USB or place it on X drive.
- **The project must be presented on the assigned date, with or without you and/or your partners.** The presentation can be video recorded.
- At the end of your presentation, students should have noted and well understood the TWO presented activities. They have added to their LOG notes and can successfully answer the workbook assessment page of your section.
- Hand this front page in before you go up for your presentation please. ☺

CRITERIA	POINTS
Organization/posture	/5
Your own words/no notes	/5
Peer involvement	/5
Originality(costume/food) or own youtube video	/5
CYU on projector	/5

Use of Visuals	/10
Demonstrations/3D	/10
Knowledge of content	/10
Serious/well done	/10
Length 10-15 minutes per person	/10
<b>Subtotal</b>	<b>/75</b>



Section: 10.1 Title: **Explaining the Early Universe**

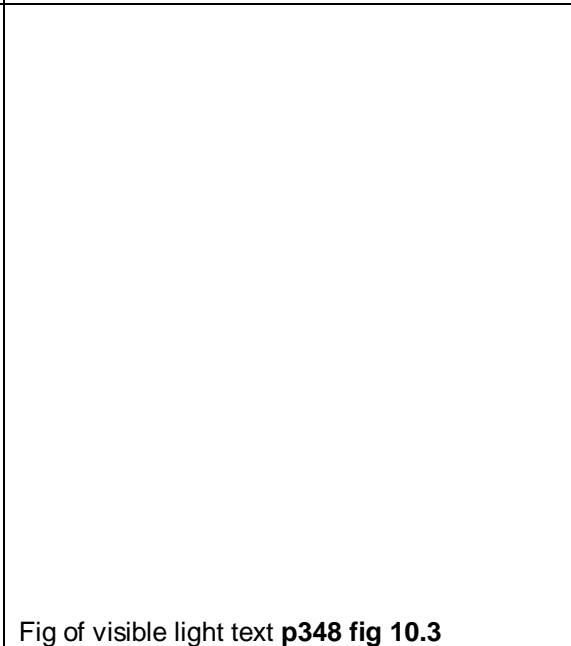
Textbook pages 346-355

Name: \_\_\_\_\_ Block: \_\_\_\_\_

Read Out Loud, Take notes, Sketch, Talk, and Share:

Date: \_\_\_\_\_

(Use different ink and colour figures !!! Highlight and have fun with this!) USE MARGINS!! ☺

Key Words	SKETCH	
<b>Astronomers –</b>		
<b>Celestial bodies –</b>		
<b>Electromagnetic radiation:</b>		
<b>Spectrum:</b>		
<b>Visible light energy:</b>		
<b>Spectroscope:</b>		
<b>Red shift:</b>		<b>BB theory evidence</b>
<b>Blue shift:</b>		<b>Background radiation:</b>
<b>Hubble’s proposal:</b>		<b>Summary: (one summary sentence)</b>
<b>Big Bang theory:</b>		
<b>My partner ( ) and I discovered/learned that</b>		
<b>Pair/share; A talks; B reports</b>		

New ideas, connection, and questions from class presentation: \_\_\_\_\_ 20

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**ASSESSMENT ANSWERS:**

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Section: 10.2 Title: Galaxies

Textbook pages 356-364

Read Out Loud, Take notes, Sketch, Talk, and Share:

Date: \_\_\_\_\_

(Use different ink and colour every time you log!! Highlight and have fun with this!) USE MARGINS!!

Key Words	SKETCH
<b>Galaxy:</b>	Draw 3 shapes of galaxies.       
<b>Nebula:</b>	
<b>Spiral galaxies:</b>	
<b>Elliptical galaxies:</b>	
<b>Irregular galaxies:</b>	
<b>2 types of star clusters:</b>	
<b>Globular:</b>	
<b>Open:</b>	<b>Summary: (one summary sentence)</b>
<b>Arecibo Observatory:</b>	_____
My partner ( _____ ) and I discovered that ...	_____
Pair/share; A talks; B reports	_____
_____	_____

New ideas, connection, and questions from class presentation: \_\_\_\_\_ 20

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**ASSESSMENT ANSWERS**

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Section: **11.1 Title:** \_\_\_\_\_ Stars \_\_\_\_\_

Textbook pages 368-381

Read Out Loud, Take notes, Sketch, Talk, and Share:

Date: \_\_\_\_\_

(Use different ink and colour every time you log!! Highlight and have fun with this!) USE MARGINS!!

Key Words	SKETCH
<b>Star:</b> _____	
<b>Interstellar matter:</b> _____	
<b>Fusion:</b> _____	
<b>From the nebula, we get 3 different mass stars: low, intermediate &amp; high</b>	
<b>1. Low mass:</b> _____	
_____	
_____	
<b>2. Intermediate:</b> _____	
_____	
<b>3. High:</b> _____	Text p 371 fig 11.3 path of stars
_____	<b>Colours reveal temperature of stars</b>
<b>Black Hole:</b> _____	<b>Red stars:</b> _____
_____	<b>Yellow:</b> _____
<b>Hertzprung-Russell Diagram:</b> _____	<b>whitish-blue:</b> _____
_____	<b>Doppler effect:</b> _____
<b>My partner ( _____ ) and I discovered...</b>	<b>Summary (one summary sentence)</b> _____
_____	_____

New ideas, connection, and questions from class presentation: \_\_\_\_\_ 20

**ASSESSMENT ANSWERS**

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Section: **11.2** Title: **THE SUN AND ITS PLANETARY SYSTEM**

Textbook pages 382-395

Read Out Loud, Take notes, Sketch, Talk, and Share:

Date: \_\_\_\_\_

(Use different ink and colour every time you log!! Highlight and have fun with this!) USE MARGINS!!

Key Words	SKETCH	
<b>Planet:</b>	Draw fig 11.16 page 384 text               	
<b>Solar system:</b>		
<b>Axis:</b>		
<b>Rotation:</b>		
<b>Revolution:</b>		
<b>Sun made mostly of Hydrogen gas;</b>		
<b><math>2_1\text{H} + 3_1\text{H} \rightarrow 4_2\text{He} + 1_0\text{n} + \text{energy}</math></b>		
<b>Solar prominence:</b>		
<b>Solar flares:</b>		
<b>Sunspots:</b>		
<b>Photosphere:</b>		
<b>Corona:</b>		<b>AU =</b>
<b>Chromosphere:</b>		_____
 	_____	
<b>Inner planets:</b>	<b>Kuiper Belt:</b>	
<b>Outer planets:</b>	_____	
<b>Moon:</b>	<b>Oort Cloud:</b>	
<b>Asteroids:</b>	<b>Summary: (one summary sentence)</b>	
<b>Comets:</b>	_____	
 	<b>I will never forget that...</b>	
 	_____	
 	_____	
<b>My partner ( _____ ) and I discovered that ...</b>	_____	
_____	_____	

**New ideas, connection, and questions from class presentation: \_\_\_\_\_ 20**

**Mercury:**

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**Venus:**

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**Earth:**

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**Mars:**

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**Jupiter:**

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**Saturn:**

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**Uranus:**

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**Neptune:**

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**ASSESSMENT ANSWERS**

Section: **11.3** Title: **\_Measuring Distances in Space** Textbook pages 395 to 405

Read Out Loud, Take notes, Sketch, Talk, and Share:

Date: \_\_\_\_\_

(Use different ink and colour every time you log!! Highlight and have fun with this!) USE MARGINS!!

Key Words	SKETCH
<b>AU =</b> _____	Draw & label fig11.22 & 11.24 (p399&401)
<b>Speed of light:</b> _____	
<b>Sun-Earth:___ mins; Sun-Neptune= __ h; Sun to Proxima Centauri= ___ light-years</b> _____	
<b>Most stars are millions of light-years away from us</b> _____	
<b>Light-year:</b> _____	
<b>Triangulation:</b> _____ _____ _____ _____	
<b>Parallax:</b> _____ _____ _____ _____ _____	<b>Summary: (one summary sentence)</b> _____ _____ _____ _____
My partner ( _____ ) and I discovered that ... _____	

New ideas, connection, and questions from class presentation: \_\_\_\_\_ 20

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**ASSESSMENT ANSWERS**  
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Section: **12.1** Title: **Earth, Moon, and Sun Interactions** Textbook pages 410-425  
 Read Out Loud, Take notes, Sketch, Talk, and Share: Date: \_\_\_\_\_  
 (Use different ink and colour every time you log!! Highlight and have fun with this!) USE MARGINS!!

Key Words	SKETCH
<b>Ptolemy:</b>	P414 fig 12.4
_____	
<b>Copernicus:</b>	
_____	
<b>Galileo:</b>	
_____	
<b>Kepler:</b>	
_____	
<b>Moon was formed by</b>	
_____	
<b>Highlands =</b>	
_____	
<b>Mare =</b>	
<b>phases:</b>	
_____	
<b>Full moon:</b>	
_____	
<b>New moon:</b>	<b>Eclipse:</b>
_____	<b>Solar ec =</b>
<b>waxing:</b>	_____
_____	<b>Lunar ec =</b>
<b>waning:</b>	_____
_____	<b>Constellations:</b>
<b>Earth's tilt:</b>	_____
_____	<b>Summary: (one summary sentence)</b>
<b>Solstice:</b>	_____
_____	_____
<b>Summer:</b>	_____
_____	_____
<b>Winter:</b>	_____
_____	_____
<b>My partner ( ) and I discovered ...</b>	_____
_____	_____

New ideas, connection, and questions from class presentation: \_\_\_\_\_ 20

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**ASSESSMENT ANSWERS**





Section: **12.3** Title: Exploring Space: Past, Present, Future

Textbook pages 432-449

Read Out Loud, Take notes, Sketch, Talk, and Share:

Date: \_\_\_\_\_

(Use different ink and colour every time you log!! Highlight and have fun with this!) USE MARGINS!!

Key Words	SKETCH
<b>Optical telescopes:</b>	Fig 12.6 p 439 textbook
<b>Radio telescopes (non-optical):</b>	
<b>Satellites:</b>	
<b>Geosynchronous orbit:</b>	
<b>Probes:</b>	
<b>Rovers:</b>	
<b>Rockets:</b>	
<b>International Space Station:</b>	
<b>Neil Armstrong:</b>	
<b>NASA:</b>	<b>Terraforming:</b>
<b>Canadarm 1 &amp; 2:</b>	
<b>Spinoff technologies:</b>	<b>Space sled:</b>
<b>Ethics:</b>	<b>Summary: (one summary sentence)</b>
<b>My partner ( ) and I discovered</b>	

New ideas, connection, and questions from class presentation: \_\_\_\_\_ 20

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**ASSESSMENT ANSWERS**  
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