Weekly Lesson Plans

Course: ASTRONOMY CP Period(s):4TH (S2) Teacher(s): SIATKOWSKI

If you have questions, please feel free to email me: @greenville.k12.sc.us or leave me a message at 355-

Why is this course important? **Astronomy can provide students with a broad perspective and a healthy appreciation for their place in the universe. It can also reveal our cosmic roots and deal with the origins of the universe, galaxies, stars, planets, and life.**	Link to Course Syllabus	Link to Course Standards

Quarter 1		Quarter 2	
Week 0 Aug 8 - 9	Week 5 Sept 9 - 13	Week 10 Oct 14 - 18	Week 15 Nov 18 - 22
Week 1 Aug 12 - 16	Week 6 Sept 16 - 20	Week 11 Oct 21 - 25	Week 16 Nov 25 - 29
Week 2 Aug 19 - 23	Week 7 Sept 23 - 27	Week 12 Oct 28 - Nov 1	Week 17 Dec 2 - 6
Week 3 Aug 26 - 30	Week 8 Sept 30 - Oct 4	Week 13 Nov 4 - 8	Week 18 Dec 9 - 13
Week 4 Sept 2 - 6	Week 9 Oct 7 -11	Week 14 Nov 11 - 15	Dec 16 - 20

Week: Aug 8-9	Unit(s):

	Monday	Tuesday	Wednesday	Thursday First Day of School!	Friday
Agenda				☐ STUDENT SURVEY ☐ SAFETY VIDEO ☐ SYLLABUS ☐ PROCEDURES	☐ SAFETY QUIZ ☐ UNIT CONVERSION NOTES
Work to Submit				☐ SIGNED SAFETY VIDEO ☐ SIGNED SYLLABUS	☐ SAFETY QUIZ SCORE OF 80% OR ABOVE.
Learning Target				STUDENT'S WILL BECOME FAMILIAR WITH THE CLASS WHEN GIVEN THE DELIVERABLES.	STUDENT'S WILL BE ABLE TO CONVERT BASIC ASTRO UNITS GIVEN CLASSROOM DISCUSSIONS.

Standards for the Week

Week: Aug 12 - 16	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	☐ UNIT 1 NOTES DAY ONE UNIT 1 NOTES(HERE)	☐ UNIT 1 NOTES DAY 2	☐ UNIT 1 DAY 3	☐ UNIT 1 DAY 4	☐ UNIT 1 TEST ☐ UNIT 2 VOCABULARY AFTER TEST
Work to Submit	☐ SIGNED DAY 1 MATERIALS	WS	Practice Problems	What's in the sky Stellarium software assignment	☐ TEST REVIEW
Learning Target	I can use large and small numbers in scientific notation to express a numeric value, given a problem to convert.	I can create a model to show the scale of the solar system and describe the properties of the planets	I can describe our cosmic address.	I can explain the difference between constellations and asterisms, and how we use constellations for locating objects.	I can describe the general ideas of where we think the universe came from and how large the Universe is.

Standards for the Week	

Week: Aug 19 - 23	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	☐ TEST REVIEW ☐ EDPUZZLE ☐ HOMEROOM SCHEDULE	☐ UNIT 1 TEST ☐ VOCABULARY FOR UNIT 2 AFTER THE TEST	☐ UNIT 2 NOTES ☐ PRACTICE PROBLEMS	☐ UNIT 2 NOTES ☐ PRACTICE PROBLEMS ☐ Q1 RESEARCH PROJECT	☐ PROJECT TIME IN CLASS ☐ WORKSHEET ☐ PEP RALLY SCHEDULE
Work to Submit	☐ EDPUZZLE	☐ VOCABULARY UNIT 2	☐ long/lat map WS	☐ Project Idea	☐ None
Learning Target	I WILL BE ABLE TO LOCATE BASIC CELESTIAL BODIES GIVEN A STAR MAP.	I WILL BE ABLE TO LOCATE BASIC CELESTIAL BODIES GIVEN A STAR MAP.	I WILL BE ABLE TO LOCATE BASIC CELESTIAL BODIES GIVEN A STAR MAP.	I WILL BE ABLE TO LOCATE BASIC CELESTIAL BODIES GIVEN A STAR MAP.	I will be able to describe the basic ideas of my project given time to research.

Standards for the Week	

Week: Aug 26 - 30	Unit(s): What we see in the sky at night (observational astronomy)

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	☐ Work on projects ☐ Java simulation of moon ☐ Azm/ Alt practice ws	☐ Unit 2 notes ☐ Practice problems ☐ WS for night sky	☐ Finish unit 2 notes ☐ Celestial globes ☐ Unit Review packet ☐ Review for Test	Go over test review ☐ Celestial globes ☐ Unit Review packet ☐ Review for Test	Test on unit 2
Work to Submit	☐ Azm/ Alt practice ws	☐ WS for night sky			
Learning Target	I will be able to compute a location if given AZM/ALt	I will be able to find objects in the night sky given celestial coordinates.	I will be able to find objects in the night sky given celestial coordinates.	I will be able to find objects in the night sky given celestial coordinates.	I will be able to find objects in the night sky given celestial coordinates.

Standards for the Week	

Week: Sept 2 - 6	Unit(s):

	Monday School Holiday	Tuesday	Wednesday	Thursday	Friday
Agenda		Unit notes the moon day 1 Moon phases diagrams	Unit notes the moon day 2 Stellarium activity- keeping time	Unit notes the Moon day 3 The moon and sidereal stuff quiz review	Quiz the moon and sidereal stuff Unit notes day 4 - eclipse Ws phases of eclipses
Work to Submit			☐ Stellarium activity- keeping time	☐ The moon and sidereal stuff quiz review	☐ Ws phases of eclipses
Learning Target		I can recognize the 8 phases of the moon given diagrams for modeling.	I can use stellarium software to keep track of space time given objects to locate at various times of the celestial year.	I can complete the moon sidereal quiz given ample time to complete the assignment.	I can model the phases of an eclipse given prompts to follow.

Standards for the Week	

Week: Sept 9 - 13	Unit(s):The Solar System and Planets

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	Work on projects Eclipse WS	Notes unit 4 day 1 Planet data sheets	Notes unit 4 day 2 Presentations	Notes unit 4 day 3 Planet Project	Notes unit 4 day 4 Planet project
Work to Submit	Eclipse WS	Planet data sheet		Presentation	Presentations
Learning Target	I can explain my constellations to a group given a rubric and research.	I can explain my constellations to a group given a rubric and research.	I can describe ideas of how the inner planets are similar given prompts.	I can represent my planet to a group by explaining the astronomical importances, given my data sheet.	I can represent my planet to a group by explaining the astronomical importances, given my data sheet.

Standards for the Week	

Week: Sept 16 - 20	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	☐ Unit 5 day 1 notes Ancient beliefs ☐ Presentations ☐ Ideas of solar system formation activity	☐ Unit 5 day 2 notes Ancient beliefs	☐ Unit 5 day 3 notes Ancient beliefs	☐ Unit 5 day 4 notes Ancient beliefs ☐ Concepts for space travel	☐ Unit 5 day 5 notes Ancient beliefs ☐ Design for solar system spacecraft
Work to Submit	☐ Ideas of solar system formation activity	☐ Ideas of solar system formation activity	☐ Ideas of solar system formation activity due Friday	Concept Rocket	
Learning Target					

Standards for the Week

Week: Sept 23 - 27	Unit(s): Our Solar System

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	• Mythbusters falling elevator - forces • Ws for mythbusters • Comets meteors and asteroids notes	Build solar spacecraft	Build solar spacecraft	Finish solar system notes Telescope lab	Begin lecture on Stellar life cycles
Work to Submit	WS myth busters				
Learning Target	I can describe the forces that are present on a falling object given the mythbusters video explanation.				

Standards for the Week	

Week: Sept 30 - Oct 4	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda					
Work to Submit					
Learning Target					

Standards for the Week	

Week: Oct 7 -11	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday End of Q1 Grading Period
Agenda	School closed	• Review of prior units • Remediation	• Review of prior units • Remediation	• Review of prior units • Remediation	• Review of prior units • Remediation
Work to Submit		Missed work	Missed work	Missed work	Missed work
Learning Target					

Standards for the Week	

Week: Oct 14 - 18	Unit(s):

	Monday Teacher Workday	Tuesday	Wednesday	Thursday	Friday
Agenda		Unit notes - The terrestrial Planets Day 1 Complete building of rockets	Unit notes - The terrestrial Planets Day 2	Unit notes - The terrestrial Planets Day 3	Unit notes - The terrestrial Planets Day 4
Work to Submit		Rockets	Mars orbiter what went wrong	Venus Questions	

Learning Target					
Standards for the Week					

Week: Oct 21 - 25	Unit(s):the terrestrial planets

	Monday Q1 Report Card	Tuesday	Wednesday	Thursday	Friday
Agenda	Unit notes - The terrestrial Planets Day 3	Unit notes - The terrestrial Planets Day 4	Unit notes - The terrestrial Planets Day	Test review	Test on Unit- The terrestrial Planets
Work to Submit					

Learning Target					

Standards for the Week	

Week: Oct 28 - Nov 1	Unit(s): The Gas Giants (Our Solar System)

Agenda	Monday	Tuesday	Wednesday	Thursday	Friday
	Unit notes day 1 edpuzzle	Unit notes day 2 Rocket completion	Unit notes day 3 Modern Marvels of the solar system	Unit notes day 4 Jupiter Jupiters activity	Unit notes day 5 Jupiter-Saturn Jupiters activity

Work to Submit	edpuzzle	Rocket project	Video exploration questions	Jupiter activity	Jupiter activity
Learning Target					

Standards for the Week	

Week: Nov 4 - 8	Unit(s): the gas giants

Monday	Tuesday	Wednesday	Thursday	Friday
Teacher Workday/Exch	School Holiday (Elections)			

Agenda	[redacted]	• Introduction to the remaining planets and dwarf planets notes • Online activity	Unit project introduction	Unit project workday
Work to Submit		Online activity		Unit project
Learning Target			I CAN UNDERSTAND A STAR CHART GIVEN THE DATA.	I CAN CREATE A HR DIAGRAM GIVEN STAR CHART DATA.

Standards for the Week	

Week: Nov 11 - 15	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	BIRTH OF STARS AND SUPERNOVAS UNIT NOTES	BIRTH OF STARS AND SUPERNOVAS UNIT NOTES	BIRTH OF STARS AND SUPERNOVAS UNIT NOTES	UNIT NOTES NEUTRON STARS AND BLACK HOLES	MILKY WAY CLASS DISCUSSION
Work to Submit				Neutron star WS	
Learning Target					

Standards for the Week	

Week: Nov 18 - 22	Unit(s):Galaxies

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	Star Test review	Star Test Today	GALAXIES UNIT	GALAXIES UNIT	GALAXIES UNIT
Work to Submit					
Learning Target					

Standards for the Week	

Week: Nov 25 - 29	Unit(s):

	Monday	Tuesday	Wednesday School Holiday	Thursday School Holiday	Friday School Holiday
Agenda	Galaxies Test Review	GALAXIES UNIT TEST			
Work to Submit					
Learning Target					

Standards for the Week	

Week: Dec 2 - 6	Unit(s): Mini units of space

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	LENS UNIT	LENS LAB	Dark matter Dark Energy	RADIO SPECTROSCOPY	Comets and shooting stars, Satellites
Work to Submit	Telescope design	Completed Telescope	2 ed puzzles on dark matter and dark energy		Night time observations.
Learning Target					

Standards for the Week	

Week: Dec 9 - 13	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday
Agenda	EXTRATERRESTRIAL LIFE?	ANCIENT STRUCTURES	REVIEW FOR FINAL	REVIEW FOR FINAL	REVIEW FOR FINAL
Work to Submit					
Learning Target					

Standards for the Week	

Week: Dec 16 - 20	Unit(s):

	Monday	Tuesday	Wednesday	Thursday	Friday End of Q2 Grading Period Half Day
Agenda	GO OVER REVIEW WITH CLASS	EXAMS 1ST AND 3RD	EXAMS 2ND AND 4TH	MAKE UP EXAMS	MAKE UP EXAMS
Work to Submit					
Learning Target					

Standards for the Week