



1st Quarter (45 Days)

Resources:
Science (Holt Mcdougal)

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
1 st : Aug 8-12 (5 days)	Chapter 1 – Scientific Investigations and reasoning Lesson 1 – Scientific Inquiry Lesson 2- Case Study: The Minneapolis Bridge Failure	TSWL: What is Scientific Inquiry? How do Scientists Investigate the Natural World? What are their discoveries? Why is experimental testing important? What are the different kinds of sciences and why are they studied?	8.1 A 8.2 A,B,C,E 8.3 A,B 8.4 A,B
2 nd : Aug 15-19 (5 days)	Chapter 2 - Atoms and the Periodic Table Lesson 1 – Discovering the parts of the atom Lesson 2- Protons, Neutrons, and Electrons	TSWL: What are the different parts of the atom? How does the atom size change across the periodic table? What is the atomic number vs the mass number? What is the difference between the three types of subatomic particles? How is the periodic table organized? Describe the atom using the modern atomic model. What is the electron cloud?	8.1 A 8.2A,C,E 8.3 D,B 8.4 A,B 8.5 A,B
3 rd : Aug 22-26 (5 days)	Ch. 2 -Lesson 3 - Using the Periodic Table Lesson 4 – Electrons and Energy levels	TSWL: How is the periodic table organized? Describe the atom using the modern atomic model. What is the electron cloud?	8.1 A 8.2A,C,E 8.3 D,B 8.4 A,B 8.5 A,B
4 th : Aug 29-Sept 2 (5 days)	Ch. 3 – Chemical Bonding and Chemical Reactions Lesson 1 – Compounds, Chemical Formulas, and Covalent Bonds Lesson 2 – Ionic and Metallic Bonds	TSWL: What is Ionic Bonding? What is Covalent Bonding? What is the difference between Ionic and metallic bonds? How do bonds form? What are double and triple bonds?	8.2 A,E 8.3 B 8.4 A,B 8.5 B,D 8.1 A
5 th : Sept 6-9 (4 days)	Ch. 3 - Lesson 3- Understanding Chemical Reactions Lesson 4 – Types of Chemical Reactions	TSWL: What is a chemical reaction? How does it happen? What are polar and nonpolar molecules? How many different types of chemical reactions are there?	8.1A,B 8.2 A, C,E 8.3 A 8.4 A,B 8.5 D,E,F
6 th : Sept 15-16 (2 days)	Ch. 4 – Speed, Velocity and Acceleration Lesson 1 – Speed and Velocity Lesson 2 - Acceleration	TSWL: What is speed? What is velocity? What is acceleration?	8.1 A 8.2 A,C,D,E 8.3 A,B 8.4 A,B



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		How are these three types of quantities different from each other and how do you calculate each?	8.6 B
7th: Sept 19-23 (5 days)	Ch. 5 – The Laws of Motion Lesson 1 – Gravity and Friction Lesson 2 – Newton’s First Law of Motion	TSWL: How are forces classified? What are the laws of Motion? What are contact and non-contact forces? What is inertia?	8.1 A 8.2 A, C, E 8.3 A,B,C,D 8.4 A,B 8.6 C
8th: Sept 26-30 (5 days)	Ch. 5 – Lesson 3- Newton’s Second Law Lesson 4- Newton’s Third law	TSWL: What is air resistance? How do forces move things? Why do things move or stop moving?	8.6 A,C 8.1 A 8.2 A, C, E 8.3 A,B,C,D 8.4 A,B
9th: Oct 3-7 (5 days)	Review and Assessment	1st Benchmark	Review
10th: Oct 10-14 (5 days)	Ch. 6 – The Sun, Moon and Earth Systems Lesson 1 – Earth’s Motion Lesson 2 – Earth’s Moon Lesson 3- Eclipses and Tides	TSWL: What keeps Earth in orbit? How does Earth’s tilted rotation axis affect the seasons? Why does the Moon appear to change shape? How can the moon be rotating if the same side of the moon is always facing Earth? How does the Moon affect Earth’s tides? Phases of the Moon	8.1 A 8.2 A,C,E 8.3 A,B 8.4 A,B 8.7 A,B,C

2nd Quarter (39 Days)

Resources: Science (Holt McDougal)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
1st: Oct 17-21 (5 days)	Ch. 7- The Universe Lesson 1 – The View from Earth Lesson 2 – The Sun and Other Stars	TSWL: How can you “see” invisible energy? How does light differ? What are those spots on the Sun? Modeling the Sun’s structure	8.1 A 8.2 A,C,E 8.3 A,D,B 8.4 A,B 8.8 A,B,C,D



2nd Quarter (39 Days)

Resources:
Science (Holt McDougal)

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
2 nd : Oct 24-28 (5 days)	<u>Lesson 3- Evolution of Stars</u> <u>Lesson 4- Galaxies and the Universe</u>	TSWL: Do the stars have life cycles? How do astronomers detect black holes? How does graphing data help you understand stars? Does the universe move? Can galaxies be identifies? How?	8.1 A 8.2 A,C,E 8.3 A,D,B 8.4 A,B 8.8 A,B,C,D,E
3 rd : Oct 31- Nov 4 (5 days)	Review and Assessment	IOWA/ITBS Complete Battery Gr 3-8	Review
4 th : Nov 7-11 (5 days)	<u>Ch. 8 – Interpreting Maps</u> <u>Lesson 1 – Maps</u> <u>Lesson 2- Technology and Map making</u>	TSWL: Learn about latitudes and longitudes How does one get from here to there? To learn to locate latitudes and longitudes How to construct a topographic profile? How are different maps made? What features can be shown on a map? How can you measure and model different features on the Earth’s surface?	8.2 A,C,E 8.3 C,D 8.9 C
5 th : Nov 14-18 (5 days)	<u>Ch. 9 – Plate Tectonics</u> <u>Lesson 1- The Continental Drift Hypothesis</u> <u>Lesson 2- Development of a Theory</u>	TSWL: Study what the continental drift is. How did the theory of continental drift develop? What happens in continental drift? What is Pangea? How do mountains form? How do volcanoes form? What is sea floor spreading?	8.1 A 8.2 A,C,E 8.3 A,B,D 8.4 A,B 8.9 A
6 th : Nov 28- Dec 2 (5 days)	<u>Lesson 3- Landforms at Plate Boundaries</u> <u>Lesson 4 – Mountain Building</u>	TSWL: What are divergent and convergent boundaries? What is stress, fault? What are ocean trenches? How do they form? How do mid-ocean ridges from? Define and give examples of fault zones.	8.2 A,C,E 8.1 A 8.3 A,B,D 8.4 A,B 8.9 B
7 th : Dec 5-9 (5 days)	Review and Assessment	2nd Benchmark	Review
8 th : Dec 12-16 (5 days)	<u>Ch. 10 – Interactions of the Atmosphere and Oceans</u>	TSWL: What happens to air as it warms?	8.1 A 8.2 A,C,E



2nd Quarter (39 Days)

Resources: Science (Holt McDougal)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
	<u>Lesson 1- Energy Transfer in the Atmosphere</u> <u>Lesson 2- Air currents</u> <u>Lesson 3- Ocean Currents</u>	Identify a temperature inversion Why does air move? To model the Coriolis effect. How does wind move water? How does temperature affect ocean currents?	8.3 A,B 8.4 A,B 8.10 A,C

3rd Quarter (46 Days)

Resources: Science (Holt McDougal)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
1 st : Jan 3-6 (4 days)	Ch. 11 – Weather <u>Lesson 1 – Describing Weather</u> <u>Lesson 2 – Weather Patterns</u>	TSWL: How and when does dew form? Why does weather change? How can air pressure be observed?	8.1 A 8.2A,C,E 8.3 A.D 8.4 A,B 8.10 B,C
2 nd : Jan 9-13 (5 days)	<u>Lesson 3- Weather Forecasts</u>	TSWL: Learn to understand the weather report How is weather represented on a map? How is weather predicted?	8.1 A 8.2A,C,E 8.3 A.D 8.4 A,B 8.10 B,C
3 rd : Jan 17-19 (3 days)	Review and Assessment	1st Mock STAAR	Review
4 th : Jan 23-27 (5 days)	Ch. 12 – Populations and Communities <u>Lesson 1 – Populations</u> <u>Lesson 2- Changing Populations</u>	TSWL: What are limiting factors? What are events and how do they change a population? How does migration affect population size? How do populations change in size?	8.1 A 8.2A,D,E 8.3 B 8.4 A 8.11 B
5 th : Jan 30-Feb 3 (5 days)	<u>Lesson 3 - Communities</u>	TSWL: What are the roles of a community? How do you model a food web? What is a symbiotic relationship?	8.1 A 8.2A,D,E 8.3 B 8.4 A 8.11 B



3rd Quarter (46 Days)			
Resources: Science (Holt McDougal)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
6 th : Feb 6-10 (5 days)	Ch. 13- How organisms Affect Environments Lesson 1 - Inheritance and Traits	TSWL: What role does chance play in inheritance? How can the environments affect phenotypes?	8.1 A 8.2A,D,E 8.3 A,B 8.4 A 8.11 C
7 th : Feb 13-17 (5 days)	Review and Assessment	2nd Mock STAAR	Review
8 th : Feb 21-24 (4 days)	Lesson 2- Adaptations in Species	TSWL: How alike are members in a population? How do species' adaptations affect one another's survival? What is natural selection?	8.1 A 8.2A,D,E 8.3 A,B 8.4 A,B 8.11 C
9 th : Feb 27- Mar 3 (5 days)	Review and Assessment	3rd Benchmark	Review
10 th : Mar 6-10 (5 days)	Lesson 3 – Dependence on Oceans	TSWL: What happens to litter in the oceans? How does the pH of seawater affect marine organisms?	8.1 A 8.2A,D,E 8.3 A,B 8.4 A,B 8.11 D

4th Quarter (48 Days)			
Resources: Science (Holt McDougal)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
1 st : Mar 20-24 (5 days)	Review and assessment	3rd Mock STAAR	Review
2 nd : Mar 27-31 (5 days)	Review and assessment	March 28: STAAR 8 Math March 28: STAAR 8 Reading	Review
3 rd : Apr 3-7 (5 days)	Labs and Projects	Review	Review
4 th : Apr 10-14 (5 days)	Labs and Projects	Review	Review



4th Quarter (48 Days)

Resources:
Science (Holt Mcdougal)

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
5 th : April 18-22 (5 days)	Review and assessment	Review	Review
6 th : Apr 24- 28 (5 days)	Labs and Projects	Review	Review
7 th : May 1-5 (5 days)	Labs and Projects	Review	Review
8 th : May 8-12 (5 days)	Review and assessment	May 10: STAAR- Science May 11: STAAR- Social Studies	Review
9 th : May 15-19 (5 days)	Review and assessment	Final Benchmark	Review
10 th : May 22-24 (3 days)	Labs and Projects Graduation Preparation	Review	Review