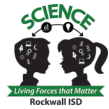




Rockwall ISD Science 8 on-level Year-at-a-Glance



	Term 1	Term 2	Term 3	Term 4
Focus TEKS ESSENTIAL	<u>Unit 1</u> 1A, 4A, 4B <u>Unit 2</u> 1B, 2A, 2E, 4A, 11A, 11B , 11C <u>Unit 3 Part A</u> 2A-E, 3B , 3C, 4A, 7A <u>Unit 3 Part B</u> 2A-E, 3B , 3C, 4A, 7B , 7C <u>Unit 4</u> 2A-E, 3D, 4A, 10A, 10B, 10C	<u>Unit 5</u> 2E, 3A, 3B , 3C, 3D, 4A, 6C , 9A, 9B , 9C <u>Unit 6</u> 2C, 2E, 3A, 3B , 3C, 3D, 4A, 8A , 8B, 8C, 8D <u>Unit 7</u> 2C, 2E, 3B, 3C, 4A, 5E	<u>Unit 8</u> 2C, 3B , 3C, 3D, 4A, 5A , 5B <u>Unit 9</u> 2E, 4A, 5B, 5C <u>Unit 10</u> 2C, 2E, 3B , 3C, 4A, 5D , 5E	<u>Unit 11</u> 1A, 2B, 2C, 2D, 2E, 3A, 4A, 6A , 6B <u>Unit 12</u> 2C, 2E, 3B , 3C, 3D, 4A, 6C
Topic Focus	<u>Unit 1</u> Science Safety & Procedures <u>Unit 2</u> Ecosystems <u>Unit 3 Part A</u> Earth Cycles: Seasons / Day & Night <u>Unit 3 Part B</u> Earth Cycles: Tides / Moon Phases <u>Unit 4</u> Climatic Interactions	<u>Unit 5</u> Forces that Change the Earth <u>Unit 6</u> Space <u>Unit 7</u> Chemical Change	<u>Unit 8</u> Atoms <u>Unit 9</u> Periodic Table <u>Unit 10</u> Chemical Formulas & Equations	<u>Unit 11</u> Speed, Velocity & Acceleration <u>Unit 12</u> Forces and Newton's Laws
Resources	<u>Unit 1</u> Chapter 1 <u>Unit 2</u> Chapters 15 & 16 <u>Unit 3</u> Chapter 12 <u>Unit 4</u> Chapter 11	<u>Unit 5</u> Chapters 8, 9, & 10 <u>Unit 6</u> Chapters 13 & 14 <u>Unit 7</u> Chapter 7	<u>Units 8 & 9</u> Chapter 5 <u>Unit 10</u> Chapter 6	<u>Unit 11</u> Chapters 2 & 3 <u>Unit 12</u> Chapter 4
Key Concepts	<u>Unit 2</u> <ul style="list-style-type: none"> • Competition and dependence on abiotic and biotic factors • Short term/long term environmental changes on organisms and subsequent populations • Dependence on the ocean and how humans use and modify ocean systems 	<u>Unit 5</u> <ul style="list-style-type: none"> • Describe the historical development of evidence of plate tectonic theory • Relate plate tectonics to the formation of crustal features • Interpret topographic maps and satellite views to identify land and erosional features • Predict how land and erosional features may be reshaped by weathering. 	<u>Unit 8</u> <ul style="list-style-type: none"> • Students will describe properties and the structure of an atom including: mass/size comparisons, electrical charges, and locations of structures. <u>Unit 9</u> <ul style="list-style-type: none"> • Students examine patterns in physical and chemical properties to understand the organization and placement of elements into periods and groups / families on the Periodic Table. 	<u>Unit 11</u> <ul style="list-style-type: none"> • Calculate Speed, Velocity and Acceleration • Read and interpret Motion and Speed graphs • Understand what the concept of Speed, Velocity, and Acceleration • Unbalanced forces cause a change in speed or direction



Rockwall ISD Science Template Year-at-a-Glance



	<p>Unit 3 Part A</p> <ul style="list-style-type: none">• Model and illustrate Earth's rotation on its axis causing day and night• Model and illustrate changes in seasons <p>Unit 3 Part B</p> <ul style="list-style-type: none">• Model and illustrate lunar cycle• Illustrate and describe the tides based on location of the Sun, earth and moon. <p>Unit 4</p> <ul style="list-style-type: none">• The Sun provides energy that drives convection within the atmosphere and oceans producing winds.• Address the role of oceans in the formation of weather systems.• Design, plan, and implement comparative investigations to enrich their understanding of convection and weather phenomenon.• Identify how global patterns of atmospheric movement influence local weather using weather maps.• Use anemometers and are introduced to psychrometers	<p>Unit 6</p> <ul style="list-style-type: none">• Describe the components related to the universe• Identify characteristics of the Sun and its relation to Earth• Determine how light/radio waves are used to gather information about components of the universe. <p>Unit 7</p> <ul style="list-style-type: none">• Law of Conservation of Mass• Evidence of chemical change	<ul style="list-style-type: none">• Students analyze and interpret information on the Periodic Table to ascertain why elements are arranged into groups / families.• Students identify that valence electrons determine an element's chemical properties including reactivity.• Students relate an element's structure to its placement on the Periodic Table.• Students view the Periodic Table as a model and learn how the arrangement of the Periodic Table allows for the prediction of undiscovered elements and their properties.• Students use their science notebooks to communicate conclusions based on the arrangement of the Periodic Table. <p>Unit 10</p> <ul style="list-style-type: none">• Coefficient, subscript, chemical formula, compounds, molecules• Identify:<ul style="list-style-type: none">○ Products○ Reactants○ yields --->• Counting atoms• Law of Conservation of Mass	<p>Unit 12</p> <ul style="list-style-type: none">• 1st- Vehicle restraints• 2nd- amusement park rides• 3rd- Rocket Launches
--	---	--	---	---