Crest Memorial School Curriculum and Pacing Guide

All activities correspond with marking period essential questions. Activity goes with question as do the the corresponding standards, modifications, accommodations, assessments and 21st century learning skills.

Grade: 7

Subject: Science

Adoption Date:

Revision Date: March 2022

	MP1	MP2	MP3	MP4
Pacing Guide	How do the parts of an ecosystem interact? (2 weeks) Why is water the most important natural resource? (2 weeks) What impact do humans have on the environment? (2 weeks)	How do the forces of erosion shape the earth's surface? (4 weeks) How has life on earth changed over time? (3 weeks)	What does all matter have in common? (2 weeks) What determines if elements will form bonds? (3 weeks) What happens in a chemical reaction? (3 weeks)	What are the objects in the solar system like? (3 weeks) Will the sun shine forever? (1 weeks) What is the structure of the universe? (2 weeks)
Instructional Materials	Teacher created textbook BrainPop	Teacher created textbook BrainPop	Teacher created textbook BrainPop	Teacher created textbook BrainPop
Activities	Create a nature documentary Design a water and sewage system	Identify causes of erosion Determine relative ages of rocks	Build molecular models Determine chemical formulae	Describe the physical characteristics of the planets Predict sunspot cycle

	Create a renewable energy website	Create a geologic timeline	Create & describe a chemical reaction	Classify galaxies according to structure and color
Standards	LS1.C: Organization for Matter and Energy Flow in Organisms LS2.A: Interdependent Relationships in Ecosystems LS2.B: Cycle of Matter and Energy Transfer in Ecosystems LS2.C: Ecosystem Dynamics, Functioning, and Resilience LS4.B: Natural Selection LS4.C: Adaptation ESS3.A: Natural Resources ESS3.C: Human Impacts on Earth Systems ETS1.A: Defining and Delimiting an Engineering Problem ETS1.B: Developing Possible Solutions ETS1.C: Optimizing the Design Solution	ESS1.C: The History of Planet Earth ESS2.A: Earth's Materials and Systems ESS2.C: The Roles of Water in Earth's Surface Processes ETS1.A: Defining and Delimiting an Engineering Problem ETS1.B: Developing Possible Solutions ETS1.C: Optimizing the Design Solution	PS1.A: Structure and Properties of Matter PS1.B: Chemical Reactions ETS1.A: Defining and Delimiting an Engineering Problem ETS1.B: Developing Possible Solutions ETS1.C: Optimizing the Design Solution	ESS1.A: The Universe and Its Stars ESS1.B: Earth and the Solar System ETS1.A: Defining and Delimiting an Engineering Problem ETS1.B: Developing Possible Solutions ETS1.C: Optimizing the Design Solution
Accommodations and Modifications	English language learners: Work with English speaking partner / group, use translation program for vocab as needed At Risk of School Failure: Work in cooperative group, adjust time for completion Gifted and Talented Students: Give opportunities to teach other students, produce work	English language learners: Work with English speaking partner / group, use translation program for vocab as needed At Risk of School Failure: Work in cooperative group, adjust time for completion Gifted and Talented Students: Give opportunities to teach other students, produce work	English language learners: Work with English speaking partner / group, use translation program for vocab as needed At Risk of School Failure: Work in cooperative group, adjust time for completion Gifted and Talented Students: Give opportunities to teach other students, produce work	English language learners: Work with English speaking partner / group, use translation program for vocab as needed At Risk of School Failure: Work in cooperative group, adjust time for completion Gifted and Talented Students: Give opportunities to teach other students, produce work

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Interdisciplinary Connections	Math RP: Ratios and Proportions EE: Expressions and Equations SP: Statistics and Probability ELA RI: Reading Informational Text RST: Reading in Science and Technical Subjects WHST: Writing in History, Science, and Technical Subjects	Math RP: Ratios and Proportions EE: Expressions and Equations SP: Statistics and Probability ELA RI: Reading Informational Text RST: Reading in Science and Technical Subjects WHST: Writing in History, Science, and Technical Subjects	Math RP: Ratios and Proportions EE: Expressions and Equations SP: Statistics and Probability ELA RI: Reading Informational Text RST: Reading in Science and Technical Subjects WHST: Writing in History, Science, and Technical Subjects	Math RP: Ratios and Proportions EE: Expressions and Equations SP: Statistics and Probability ELA RI: Reading Informational Text RST: Reading in Science and Technical Subjects WHST: Writing in History, Science, and Technical Subjects
Assessments	**Benchmark Assessments** Standardized Tests **Ongoing Formative Assessment** Lab Reports Homework Class Participation **Summative Assessments** Chapter and Unit Tests	**Benchmark Assessments** Standardized Tests **Ongoing Formative Assessment** Lab Reports Homework Class Participation **Summative Assessments** Chapter and Unit Tests	**Benchmark Assessments** Standardized Tests **Ongoing Formative Assessment** Lab Reports Homework Class Participation **Summative Assessments** Chapter and Unit Tests	**Benchmark Assessments** Standardized Tests **Ongoing Formative Assessment** Lab Reports Homework Class Participation **Summative Assessments** Chapter and Unit Tests
21st Century Themes and Skills	Design a water and sewage ssytem (CRP8 Critical Thinking and Problem Solving) Weigh costs & benefits of an environmental issue (CRP9	Determine relative ages of rocks (CRP8 Critical Thinking and Problem Solving) Create a geologic timeline (CRP6 Creativity and Innovation)	Separate a mixture (CRP8 Critical Thinking and Problem Solving) Test factors affecting reaction rate (CRP8 Critical Thinking and Problem Solving)	Create and interpret Hubble diagram (CRP8 Critical Thinking and Problem Solving)

	Accountability, Productivity, and Ethics)			