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: Second

Subject: Science

Adoption Date: 4/1/14

Revision Date: April 5, 2022

	MP1	MP2	MP3	MP4
Pacing Guide	How does creating a sample of moon phases help understand why the moon looks like it is disappearing? (3 weeks) How does analyzing stars help me understand our solar system? (3 weeks) How can I understand the differences of the planets in our solar system? (4 weeks)	How does conducting experiments help me understand sound energy? (3 weeks) How does understanding the principles of heat help me in my everyday life? (3 weeks) Why is creating a stained glass window a good way to show differences in light energy? (4 weeks)	How does analyzing fossils help me learn about dinosaurs? (5 weeks) How does understanding why animals become extinct help endangered animals? (5 weeks	How does conducting experiments help me understand gravity? (2 weeks) How can conducting experiments help me understand the rules of motion? (4 weeks) How does building a simple machine help me understand how the parts work? (4 weeks)
Instructional Materials	Brainpopjr.com Discovery Education Mystery Science Readworks.org	Brainpopjr.com Discovery Education Mystery Science Readworks.org	Brainpopjr.com Discovery Education Mystery Science Readworks.org	Brainpopjr.com Discovery Education Mystery Science Readworks.org

	Teacher created	Teacher created	Teacher created	Teacher created
Activities	**Activity One**: Draw and label moon phases **Activity Two**: Make a layers of the sun model **Activity Three**: Research a planet and create a poster	**Activity One:** Complete a Mystery Science video and conduct sound experiment using cups and strings **Activity Two**: Heat experiment: determine which heat source in classroom would melt ice fastest. Discussion after experiment **Activity Three:** Complete a Mystery Science video, sort objects into opaque and transparent and make a stained glass window	**Activity One:** Research a dinosaur and create a dodecahedron project **Activity Two:** Research an endangered animal and create a slides presentation on factors causing endangerment	**Activity One:** Build a paper airplane and describe what makes it fly **Activity Two:** Conduct experiments using friction **Activity Three:** Build a catapult
Standards	**Activity One:** 2-ESS2-3.8.1 **Activity Two:** SCI.1-ESS1-1 **Activity Three:** SCI.2-ESS2-2	**Activity One:** SCI.1-PS4-1 **Activity Two:** SCI.2-PS1-4 **Activity Three:** SCI.1-PS4-3	**Activity One:** SCI.3-LS4-1 **Activity Two:** SCI.3-LS4-3	**Activity One:** **SCI.3-PS2-1** **Activity Two:** **SCI.3-PS2-1** **Activity Three:** SCI.1-PS4-3
Accommodations and Modifications	**English language learners:** -Assign a buddy, same language or English speaking (Activity one) **At Risk of School Failure:** - Break assignment into a series of smaller assignments (Activity three) **Gifted and Talented Students:** -Provide opportunities for	**English language learners:** -Assign a buddy, same language or English speaking (Activity one) **At Risk of School Failure:** - Implement behavioral/academic contracts (Activity One, Two and three) **Gifted and Talented Students:**	**English language learners:** -Assign a buddy, same language or English speaking (Activity one) **At Risk of School Failure:** -Provide a sample (Activities one and two) **Gifted and Talented Students:**	**English language learners:** Provide hands-on activities and explanations (Activity three) **At Risk of School Failure:** - Implement behavioral/academic contracts (Activity One, Two and three) **Gifted and Talented Students:**

	open ended, self directed activities (Activity one and three) **Students with 504 plans**: -Students sit in close proximity to the teacher (Activity one, two, and three) **Special Education** -Provide a model tand checklist hat breaks down the assignment into smaller parts(activities one, two, and three)	--Give students the chance to mentor other students (Activity one, two, and three) **Students with 504 plans**: -Students sit in close proximity to the teacher (Activity one, two, and three) **Special Education** -Provide a model and checklist that breaks down the assignment into smaller parts(activity three)	-Use advanced supplementary reading materials (Activities One and two) **Students with 504 plans**: -Students with hearing, visual, or cognitive impairment may have extra time (Activities one and two) **Special Education** -Provide a model ans checklist that breaks down the assignment into smaller parts(Activities one and two)	-Give students the chance to mentor other students (Activity one and three) **Students with 504 plans**: -Students sit in close proximity to the teacher for guidance (Activities one, two, and three) **Special Education** -Provide a model and checklist that breaks down the assignment into smaller parts (activities one, two, and three)
Interdisciplinary Connections	Students will read nonfiction books and passages They will write paragraphs. (ELA)	Students will read news articles and nonfiction books (ELA)	Students will read news articles and nonfiction books (ELA)	Students will write a paragraph explaining why airplanes aren't pulled down by gravity (ELA)
Assessments	**Formative Assessments** Quizzes Oral reports Class participation Teacher observation Written responses to open ended questions **Summative assessments** End of unit Projects	**Formative Assessments** Quizzes Oral reports Class participation Teacher observation Written responses to open ended questions **Summative assessments** End of unit Projects Experiments	**Formative Assessments** Oral reports Class participation Teacher observation Written responses to open ended questions **Summative assessments** End of unit Projects	**Formative Assessments** Quizzes Oral reports Class participation Teacher observation Written responses to open ended questions **Summative assessments** End of unit Projects Experiments
21st Century Themes and Skills	CRP.K-12.CRP2.1 CRP.K-12.CRP4.1 CRP.K-12.CRP12.1 **Life Literacies and Key Skills** 9.4.2.IML.3: 9.4.2.CT.3:	CRP.K-12.CRP2.1 CRP.K-12.CRP4.1 CRP.K-12.CRP12.1 **Life Literacies and Key Skills** 9.4.2.CI.2 9.4.2.CT.3:	CRP.K-12.CRP2.1 CRP.K-12.CRP4.1 CRP.K-12.CRP12.1 **Life Literacies and Key Skills** 9.4.2.IML.3: 9.4.2.CT.3:	CRP.K-12.CRP2.1 CRP.K-12.CRP4.1 CRP.K-12.CRP12.1 **Life Literacies and Key Skills** 9.4.2.CI.2 9.4.2.CT.3:
