Crest Memorial School Curriculum and Pacing Guide

Grade: 5th

Subject: Science

Adoption Date: Revision Date: 10/21

	MP1	MP2	MP3	MP4
Scope and Sequence/Essential Questions	1) Evaluate what constitutes useful scientific evidence (2 weeks) 2) How does technology affect our lives? (1-2 weeks) 3) Analyze in what ways do organisms interact within ecosystems (3 weeks) 4)Understand how animals and plants are classified (2 weeks)	1)Understand how adaptations help animals and plants? (2 weeks) 2)Analyze how organisms change as they go through their life cycle. (2 weeks) 3) Evaluate what a cell looks like and what its function is to a living organism. (2 weeks) 4. Understand the human body systems and how they interact (3-4 weeks)	1) Understand how minerals are found in rocks and soil? (2 weeks) 2)Analyze what kinds of processes change Earth's surface (2 weeks) 3) Evaluate the layers of the Earth beneath our feet (3 weeks) 4. Evaluate how humans interact with the Earth (3 weeks). 5. Compare Earth to the other planets in our Solar System (1-2 weeks)	1) What are the properties of matter and how can it be used or described? (1-2 weeks) 2) Evaluate how forces cause objects to move (2 weeks) 2)Understand how Newton's laws relate to each other (3 weeks) 3) Analyze how work can be made easier(1 week)

Instructional Materials	Interactive Science. Pearson Education Inc., 2012 STEM Activity Book. Pearson Education Inc., 2012 Pearson Success Net Supplemental Website Lab Activities and Materials Brain Pop Lessons Supplemental Handouts	Interactive Science. Pearson Education Inc., 2012 STEM Activity Book. Pearson Education Inc., 2012 Pearson Success Net Supplemental Website Lab Activities and Materials Brain Pop Lessons Supplemental Handouts	Interactive Science. Pearson Education Inc., 2012 STEM Activity Book. Pearson Education Inc., 2012 Pearson Success Net Supplemental Website Lab Activities and Materials Brain Pop Lessons Supplemental Handouts	Interactive Science. Pearson Education Inc., 2012 STEM Activity Book. Pearson Education Inc., 2012 Pearson Success Net Supplemental Website Lab Activities and Materials Brain Pop Lessons Supplemental Handouts

	Online Sources: Mystery Science, TrueFlix, ScholasticGo, Google Applications, PhET simulations	Online Sources: Mystery Science, TrueFlix, ScholasticGo, Google Applications, PhET simulations	Online Sources: Mystery Science, TrueFlix, ScholasticGo, Google Applications, PhET simulations	Online Sources: Mystery Science, TrueFlix, ScholasticGo, Google Applications, PhET simulations
Standards	Activity One: 3-5-ETS1-2 Activity Two: 4-LS1-1 Activity Three: 4-LS1-1	Activity One: 4-LS1-1 Activity Two: 5-PS3-1 Activity Three: 4-LS1-2 Activity Four: 4-LS1-2	Activity One: 5-LS2-1 Activity Two: 5-LS2-1 Activity Three: 5-ESS2-1 Activity Four: 5-ESS3-1 Activity Five: 5-ESS1-1 and 2	Activity One: 5-PS2-1 Activity Two: Sci.5.5-PS3-1.5.1 Activity Three: 3-5-ETS1-2

Activities	1. Research and build a prosthetic arm using STEM materials. 2. Research the classification of various animals through the use of dichotomous keys. 3. Research the classification of an animal and create a Slide show about it.	1. Research an animal's adaptations and create a poster/essay about the research.*Endangered Species Poster Contest 2. Create a Cell using different colors and images. 3. Research and complete hands-on activities to help better understand the human body systems and their interactions. 4. Lab--dissection of an owl pellet and subsequent modeling of re-assembling the bones.	1. Mineral ID activity using a dichotomous key. 2. Research weather patterns in our town and compare them to places around the World. 3. Research, draw and write a story about an endangered or threatened animal. .*Endangered Species Poster Contest 4. Research "Green" sources of energy and debate which would work best for our local environment. 5. Students will review about the different planets of the Solar System through resources such as BrainPop, Mystery Science and NASA.	1. Model Newton's Laws using toy cars, ramps and different ramp surfaces. 2. Test out how forces act on a rollercoaster by designing one on the computer. 3. Create a STEM project to create a machine that makes an activity easier to Complete. 4. Explore various PhET simulations on the internet to help visualize energy transfer

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	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	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	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

Assessments	**Ongoing Progress Monitoring** - Current Events - Classwork - Vocabulary Quizzes **Benchmarks** - Chapter Quizzes - Teacher Observations **Summative Assessments** - Unit Projects - Labs	**Ongoing Progress Monitoring** - Current Events - Classwork - Vocabulary Quizzes **Benchmarks** - Chapter Quizzes - Teacher Observations **Summative Assessments** - Unit Projects - Labs	**Ongoing Progress Monitoring** - Current Events - Classwork - Vocabulary Quizzes **Benchmarks** - Chapter Quizzes - Teacher Observations **Summative Assessments** - Unit Projects - Labs	**Ongoing Progress Monitoring** - Current Events - Classwork - Vocabulary Quizzes **Benchmarks** - Chapter Quizzes - Teacher Observations **Summative Assessments** - Unit Projects - Labs

21st Century Themes and Skills/Engineering and Design	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3