Spiral Review: Students should engage daily in the Science and Engineering Practices -the Science and Engineering Practices are designed to develop students' deeper understanding of science by engaging in the actual work of science and engineering **and** identify the Crosscutting Concepts - bridge disciplinary boundaries, uniting core ideas throughout the fields of science and engineering.

2021-2022 Fourth Grade Science Curriculum Map

The suggested instructional pacing schedule is approximate and can be adjusted; however, the sequence of instruction should not be altered. Teachers should adhere to the guide as closely as possible. ***Note: The Review Unit and Pre-Unit Review Buffers have been included to provide additional learning supports.***

First Semester				
Unit 0 **Think Like a Scientist**	**Unit 1** **Stars, Planets and Moon**	**Buffer**	**Pre-Unit 2** **Review Buffer**	**Unit 2** **Forecasting the Weather**
Lab Safety Science and Engineering Fair	**Priority Standards** S4E1c S4E2b **Supporting Standards** S4E1a S4E1b S4E1d S4E2a S4E2c	**Priority Standards** S4E1c S4E2b	**Prerequisite Standards** S1E1a S1E1c	**Priority Standards** S4E3b S4E4b **Supporting Standards** S4E3a S4E4a S4E4c S4E4d
10 days	**4 weeks (20 days)**	**3 days**	**2 days**	**3 weeks (15 days)**
Big Ideas • **Proper** lab safety procedures • Science and Engineering Fair	**Big Ideas** • Stars and Planets • Phases of the Moon • Earth's orbit and tilt **Science and Engineering Practices** • Obtaining, evaluating and communicating • Construct explanations • Engage in argument form evidence • Asking questions **Crosscutting Concepts** • Patterns • Systems and Models • Scale, Proportion and Quantity	**Assessment** **Remediation** **Enrichment**	**Big Ideas** • Weather and Climate • Weather instruments	**Big Ideas** • States of Matter-Water • Water Cycle • Weather **Science and Engineering Practices** • Obtaining, evaluating and communicating • Construct explanations • Developing and using models • Asking questions • Analyze and interpret data • Plan and carry out investigations **Crosscutting Concepts** • Patterns • Systems and Models • Energy and Matter

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Revised May 21, 2021

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First Semester			
Buffer	**Pre-Unit 3 Review Buffer**	**Unit 3 Force and Motion**	**Buffer**
Priority Standards S4E3b S4E4b	**Prerequisite Standards** SKP2a S2P2a	**Priority Standards** S4P3b S4P3c **Supporting Standard** S4P3a	**Priority Standards** S4P3b S4P3c
3 days	**2 days**	**4 weeks (32 days)**	**3 days**
Assessment **Remediation** **Enrichment**	**Core Ideas** • Pushes and pulls-change in motion • Size of an object impacts force and motion	**Core Ideas** • Balanced and unbalanced forces • Gravitational force • Simple machines **Science and Engineering Practices** • Obtaining, evaluating and communicating • Construct argument from evidence • Asking questions and defining problems • Developing and using models • Analyzing and interpreting data **Crosscutting Concepts** • Energy and Matter • Cause and Effect	**Assessment** **Remediation** **Enrichment**

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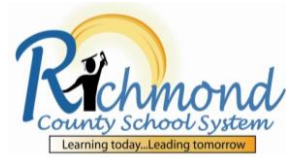
Second Semester		
Pre-Unit 4 Review **Buffer**	**Unit 4** **Sound and Light**	**Buffer**
Prerequisite Standards S1P1a S1P1d	**Priority Standards** S4P1b S4P1c S4P2a **Supporting Standards** S4P1a S4P2b	**Priority Standards** S4P1b S4P1c S4P2a
2 days	**8 weeks (40 days)**	**3 days**
Core Ideas • Light is needed to see • Sound can make matter vibrate, and vibrating matter can make sound	**Core Ideas** • Light Interactions- Opaque/transparent/translucent • Reflection/Refraction • Sound **Science and Engineering Practices** • Obtaining, evaluating and communicating • Developing and using models • Asking questions • Designing solutions **Crosscutting Concepts** • Energy and Matter	**Assessment** **Remediation** **Enrichment**

Revised Mat 21, 2021



Revised Mat 21, 2021

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2021-2022 Fourth Grade Curriculum Map

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Second Semester		
Pre-Unit 5 Review **Buffer**	**Unit 5** **Ecosystems and Flow of Energy**	**Buffer**
Prerequisite Standards S1L1b	**Priority Standard** S4L1c **Supporting Standards** S4L1a S4L1b S4L1d	**Priority Standard** S4L1c
2 days	**8 weeks (40 days)**	**3 days**
Core Ideas • Basic needs of plants and animals	**Core Ideas** • Ecosystems • Food Chains/Food webs **Science and Engineering Practices** • Obtaining, evaluating and communicating • Developing and using models • Asking questions and defining problems • Constructing explanations and designing solutions **Crosscutting Concepts** • Energy and Matter • Structure and Function	**Assessment** **Remediation** **Enrichment**