2019-2020  Science Scope and Sequence, Grade 8

Quarter 1
Unifying Concept: Life Science
Our Genes

Reading Focus
Literature

Writing Focus
Narrative

Highly-
Leveraged¹
8.S4.C2, C4
8.S3.C2

Supporting²
8.S2.C1
8.S3.C2

Constant³
8.S1.C1, C2
8.S1.C3, C4
8.S2.C2
8.S3.C1

Crosscutting Concepts

- Patterns
- Cause & Effect

- Systems & System Models

Quarter 2
Unifying Concept: Physical Science
Chemical Building Blocks

Reading Focus
Informational

Writing Focus
Informative/Explanatory

Highly-
Leveraged¹
8.S5.C1

Supporting²
8.S2.C1
8.S3.C1, C2

Constant³
8.S1.C1, C2
8.S1.C3, C4
8.S2.C2

Crosscutting Concepts

- Patterns
- Scale, Proportion, & Quantity

- Energy & Matter

Quarter 3
Unifying Concept: Physical Science
Motion, Forces, and Energy

Reading Focus
Literature

Writing Focus
Argumentative

Highly-
Leveraged¹
8.S5.C2

Supporting²
8.S2.C1
8.S3.C2

Constant³
8.S1.C1, C2
8.S1.C3, C4
8.S2.C2
8.S3.C1

Crosscutting Concepts

- Energy & Matter
- Cause & Effect

- Stability & Change

Quarter 4
Unifying Concept: Enrichment

Reading Focus
Literature, Informational

Writing Focus
Argumentative, Informative/Explanatory

Highly-
Leveraged¹
8.S1.C1, C2

Supporting²
8.S4.C2, C4
8.S5.C1, C2

Constant³
8.S2.C1, C2
8.S3.C1, C2

Crosscutting Concepts

- Patterns
- Cause & Effect

- Systems & System Models
- Scale, Proportion, & Quantity

Science & Engineering Practices – Applicable to all quarters

- Ask questions and define problems
- Develop and use models
- Plan and carry out investigations
- Analyze and interpret data
- Obtain, evaluate, and communicate information

- Obtain, evaluate, and communicate information
- Use mathematics and computational thinking
- Construct explanations and design solutions
- Engage in argument from evidence
- Use mathematics and computational thinking

¹Highly-Leveraged Standards are essential knowledge and skills that are emphasized during the quarter because they have endurance (relevant throughout a student’s lifetime); leverage (used across multiple content areas); and are necessary for success in future grade levels. Mastery of these standards is measured using classroom and/or benchmark assessments.

²Supporting Standards are integral to achieve grade-level mastery. Mastery of these standards is measured using classroom and/or benchmark assessments.

³Constant Standards are routinely addressed to reinforce grade-level mastery.