

Accessible Version of Figure 1: Grades 6 - 8 Scope and Sequence

The first column represents 6th Grade Science. The second column represents 7th Grade Science, and the 3rd column represents 8th grade science. The column includes 6 bundles of performance expectations that are the focus for each unit. Some of the bundles are connected to other bundles in the same course or to bundles in a different grade. In this document I have written descriptions of the information that is being conveyed by Figure 1L Grades 6 – 8 Scope and Sequence. The descriptions are organized by grade.

Grade 6 Science Units and Performance Expectations

6.1 Light and Matter is based on MS-PS4-2 and MS-LS1-8. The bundle emphasis is physical science PEs. This bundle is connected to 8.2 Sound Waves. MS-PS4-2 and MS-LS1-8 build across multiple units.

6.2 Thermal Energy is based on MS-PS1-4, MS-PS3-3, MS-PS3-4, MS-PS3-5, MS-PS4-2 and MS-ETS1-4. The bundle emphasis is physical science PEs. This bundle is connected to 6.4 Plate Tectonics and Rock Cycling, 6.6 Cells and Systems, and 8.1 Contact Forces. MS-PS1-4 builds across multiple units. The bundle builds on prior physical science PEs.

6.3 Weather, Climate, and Water Cycling is based on MS-ESS2-4, MS-ESS2-5, MS-ESS2-6, and MS-PS1-4. The bundle emphasis is Earth and space science PEs. This bundle is connected to Unit 6.5 Natural Hazards and Unit 7.6 Earth's Resources & Human Impact. MS-PS1-4 builds across multiple units. The bundle builds on prior physical science PEs.

6.4 Plate Tectonics and Rock Cycling is based on MS-ESS1-4, MS-ESS2-2, MS-ESS2-3, and MS-MS-PS4-3, ESS2-1. The bundle emphasis is Earth and space science PEs. This bundle is connected to 7.6 Earth's Resources and Human Impact and 8.6 Natural Selection & Common Ancestry. The bundle builds on prior physical science Earth & space science PEs.

6.5 Natural Hazards is based on MS-ESS3-2, MS-ETS1-1, and MS-ETS1-2. The bundle emphasis is Earth and space science PEs. This bundle is not connected to future bundles. The bundle builds on prior physical science Earth & space science PEs.

6.6 Cells and Systems is based on MS-LS1-1, MS-LS1-2, MS-LS1-3, MS-LS1-8, and MS-LS4-3. The bundle emphasis is on life science PEs. This bundle is connected to 6.3 Metabolic Reactions, and 8.2 Sound Waves. MS-LS1-8 builds across multiple units. The bundle builds on prior life science PEs.

Grade 7 Units and Performance Expectations

7.1 Chemical Reactions & Matter Transformations is based on MS-PS1-1, MS-PS1-2, MS-PS1-5, and MS-LS1-8. The bundle emphasis is physical science PEs. This bundle is connected to 7.2 Chemical Reactions & Energy. MS-LS1-8 builds across multiple units. The bundle builds on prior physical science Earth & space science PEs.

7.2 Chemical Reactions and Energy is based on MS-PS1-6, MS-ETS1-2, MS-ETS1-3, and MS-ETS1-4. The bundle emphasis is physical science PE. This bundle is connected to 7.3: Metabolic Reactions. MS-ETS1-2, MS-ETS1-3, and MS-ETS1-4 build across multiple units. The bundle builds on prior physical science PEs.

7.3 Metabolic Reactions is based on MS-LS1-3, MS-LS1-5, MS-LS1-7, MS-PS1-1, and MS-PS1-2. The bundle emphasis is life science PEs. This bundle is connected to 7.4 Matter Cycling & Photosynthesis and 8.5: Genetics. The bundle builds on prior physical science Earth & space science PEs. The bundle emphasis is Earth & space science PEs.

7.4 Photosynthesis / Matter Cycling is based on MS-LS1-6, MS-LS2-3, and MS-PS1-3. The bundle emphasis is life science PEs. This bundle is connected to 7.5 Ecosystem Dynamics & Biodiversity. The bundle builds on prior physical science Earth & space science PEs.

7.5 Ecosystem Dynamics is based on MS-LS2-1, MS-LS2-4, MS-LS2-2, and MS-LS2-5. The bundle emphasis is life science PEs. This bundle is connected to 7.6 Earth's Resources & Human Impact and 8.6 Natural Selection & Common Ancestry. MS-ESS3-3 and ETS1-1 build across multiple units. The bundle builds on prior physical science, life science and Earth & space science PEs.

7.6 Natural Resources / Human Impact is based on MS-ESS3-1, MS-ESS3-3, ESS3-4, and MS-ESS3-5. The bundle emphasis is Earth and space science PEs. This bundle is not connected to other bundles. MS-ESS3-3 and ETS1-2 build across multiple units. ETS1-2 builds across multiple units. The bundle builds on prior physical science, life science and Earth & space science PEs.

Grade 8 Units and Performance Expectations

8.1: Contact Forces is based on MS-PS2-1, MS-PS2-2, MS-PS3-3, MS-ETS1-2, MS-ETS1-3 and MS-LS1-8. The bundle emphasis is physical science PEs. This bundle is connected to 8.2 Sound Waves and 8.3 Forces at a Distance. MS-ETS1-2, MS-ETS1-3 and MS-LS1-8 build across multiple units. The bundle builds on prior physical science and Earth & space science PEs. The bundle emphasis is physical science.

8.2: Sound Waves is based on MS-PS4-1 and MS-PS4-2. This bundle is not connected to other bundles. The bundle emphasis is physical science PEs. MS-PS4-2 and MS-LS1-8 build across units. The bundle builds on prior physical science and Earth & space science PEs. The bundle emphasis is physical science.

8.3: Forces at a Distance is based on MS-PS2-3, MS-PS2-5, and MS-PS3-2. The bundle emphasis is physical science PEs. This bundle is connected to 8.4 Earth in Space. The bundle builds on prior physical science PEs. The bundle emphasis is physical science.

8.4: Earth in Space is based on MS-ESS1-1, MS-ESS1-2, MS-ESS1-3, MS-PS2-4, and MS-PS4-2. The bundle emphasis is Earth & science PEs. The bundle emphasis is Earth and space science PEs. This bundle is not connected to other bundles. MS-PS4-2. This bundle builds on prior physical science PEs.

8.5: Genetics is based on MS-LS1-2, MS-LS1-5, MS-LS3-1, MS-LS3-2, and MS-LS4-5. The bundle emphasis is life science PEs. This is connected to 8.6 Natural Selection & Common Ancestry. MS-LS1-2 and MS-LS1-5 build across multiple units. This bundle builds on prior physical science and life science PEs.

8.6: Natural Selection and Common Ancestry is based on MS-LS1-4, LS4-1, MS-LS4-2, MS-LS4-31, MS-LS4-4, and MS-LS4-6. The bundle emphasis is life science PEs. This bundle is connected to high school Biology unit 4 Natural Selection & Evolution of Populations. This bundle builds on prior Earth & space and life science PEs.