# MA OpenSciEd Scope and Sequence of Units Recommendation

This document provides guidance to Massachusetts teachers using OpenSciEd as their classroom science curriculum. The following identifies the MA standards addressed or partially addressed in the curriculum “as is” as well as standards that can be addressed with adaptations and extensions as described on the individual unit guidance documents found at <https://www.doe.mass.edu/stem/ste/openscied.html>. Refer to the Unit Guidance documents for additional information.

**Note:** ETS Standards 3-3, 3-4, and 3-5 are not currently addressed in OpenSciEd or in any extension guidance.

## 6th Grade

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| **OpenSciEd Unit** | **MA Standards Covered in Unit As-Is** | **MA Standards Partially Covered in Unit As-Is****(may be fully addressed across units)** | **MA Standards Covered in Unit Guidance Extensions** |
| **Light & Matter** |  | 6.MS-PS4-2  |  |
| **Sound Waves** | 6.MS-PS4-1 | 6.MS-PS4-2  |  |
| **Forces at a Distance** | 7.MS-PS3-2 | 7.MS-PS2-5 | 7.MS-PS2-3, 7.MS-PS2-5 |
| **Earth in Space** | 6.MS-ESS1-1a, 6.MS-ESS1-5(MA), 6.MS-PS2-4, 8.MS-ESS1-1b  | 6.MS-PS4-2 | 8.MS-ESS1-2 |
| **Plate Tectonics & Rock Cycling** | 6.MS-ESS1-4, 6.MS-ESS2-3, 7.MS-ESS2-2, 8.MS-ESS2-1 | 6.MS-LS4-1 |  |
| **Cells & Systems**  | 6.MS-LS1-1, 6.MS-LS1-2, 6.MS-LS1-3 |  |  |

## 7th Grade

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| **OpenSciEd Unit** | **MA Standards Covered in Unit As-Is** | **MA Standards Partially Covered in Unit As-Is****(may be fully addressed across units)** | **MA Standards Covered in Unit Guidance Extensions** |
| **Contact Forces** | 6. MS-ETS2-2(MA), 7. MS-PS3-1, 7.MS-PS3-5, 7.MS-ETS1-4, 7.MS-ETS1-7(MA), 8.MS-PS2-1 | 6.MS-ETS2-1(MA), 7.MS-ETS1-2, 8.MS-PS2-2, 8.MS-ETS2-4(MA) | 6.MS-ETS1-5(MA), 6.MS-ETS2-3(MA), 7.MS-PS3-7(MA) |
| **Thermal Energy** | 6.MS-ETS1-6(MA),7.MS-PS3-3, 7.MS-PS3-4, 7.MS-PS3-5,7.MS-ETS1-4, 7.MS-ETS1-7(MA) | 6.MS-PS4-2, 7.MS-PS3-6(MA), 8.MS-PS1-4 | 6.MS-ETS1-5(MA), 7.MA-PS3-7(MA) |
| **Matter Cycling & Photosynthesis** | 6.MS-LS1-2, 7.MS-LS2-3 | 8.MS-PS1-2 |  |
| **Ecosystem Dynamics & Biodiversity** | 7.MS-LS2-1, 7.MS-LS2-2, 7.MS-LS2-4, 7.MS-LS2-5, 7.MS-LS2-6(MA) | 6.MS-ETS1-1, 7.MS-ESS3-4, 7.MS-ETS1-2, 7.MS-ETS1-4 |  |
| **Earth’s Resources & Human Impact** | 7.MS-ESS3-4, 8.MS-ESS3-1, 8.MS-ESS3-5 | 7.MS-ETS1-2 |  |
| **Natural Hazards**  | 6.MS-PS4-3, 7.MS-ESS3-2, 7.MS-ETS3-1(MA), 7.MS-ETS3-2(MA) | 6.MS-ETS1-1; 7.MS-ETS1-2 |  |

## 8th Grade

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| **OpenSciEd Unit** | **MA Standards Covered in Unit As-Is** | **MA Standards Partially Covered in Unit As-Is****(may be fully addressed across units)** | **MA Standards Covered in Unit Guidance Extensions** |
| **Chemical Reactions & Matter** | 6.MS-PS1-8(MA), 8.MS-PS1-1, 8.MS-PS1-2, 8.MS-PS1-5 |  |  |
| **Chemical Reactions & Energy** | 6.MS-PS1-6, 7.MS-ETS1-7(MA) | 7.MS-ETS1-2, 7.MS-ETS1-4 | 7.MS-PS3-7(MA), 6.MS-ETS1-5(MA) |
| **Metabolic Reactions** | 8.MS-LS1-7, 8. MS-PS1-1, 8.MS-PS1-2 | 8.MS-LS1-5 |  |
| **Genetics** | 8.MS-LS1-5, 8.MS-LS3-1, 8.MS-LS3-2, 8.MS-LS3-3(MA), 8.MS-LS3-4(MA), 8.MS-LS4-5 | 6.MS-LS1-2, 7.MS-LS1-4 |  |
| **Natural Selection & Common Ancestry** | 6.MS-LS4-1, 6.MS-LS4-2, 8.MS-LS4-4 | 7.MS-LS1-4 |  |
| **Weather, Climate & Water Cycling** | 6.MS-PS1-7(MA), 7.MS-ESS2-4, 7.MS-PS3-4, 8.MS-ESS2-5, 8.MS-ESS2-6 | 6.MS-PS4-2, 7.MS-PS3-6(MA), 8.MS-PS1-4, 8.MS-PS2-2 |  |