**MA OpenSciEd Unit Sequence & MA NGSS Alignment**

The table below provides guidance to Massachusetts teachers using OpenSciEd as their classroom science curriculum. The following identifies the MA standards addressed or partially addressed in the released OpenSciEd units.
*Italics indicated partially addressed standards*

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| **6th grade** | MA 6.1) **Light & Matter** | *6.MS-PS4-2* |
| MA 6.2) **Sound Waves** *(OSE 8.2)\** | 6.MS-PS4-1, *6.MS-PS4-2* |
| MA 6.3) **Forces at a Distance** *(OSE 8.3)\** | 6.MS-PS4-3, *7.MS-PS2-5*, 7.MS-PS3-2 |
| MA 6.4) **Earth in Space** *(OSE 8.4)\** | 6.MS-ESS1-1a, 6.MS-ESS1-5(MA), 6.MS-PS2-4, 6.MS-PS4-2, 8.MS-ESS1-1b, 8.MS-ESS1-2  |
| MA 6.5) **Plate Tectonics & Rock Cycling** *(OSE 6.4)* | 6.MS-ESS1-4, 6.MS-ESS2-3, *6.MS-LS4-1,* 7.MS-ESS2-2, 8.MS-ESS2-1 |
| MA 6.6) **Cells & Systems** | 6.MS-LS1-1, 6.MS-LS1-2, 6.MS-LS1-3 |
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| **7th grade** | MA 7.1) **Thermal Energy** *(OSE 6.2)\** | *6.MS-PS4-2,* 7.MS-PS3-3, 7.MS-PS3-4, 7.MS-PS3-5, *7.MS-PS3-6(MA), 7.MS-ETS1-4, 8.MS-PS1-4* |
| MA 7.2) **Contact Forces** *(OSE 8.1)\** | *6.MS-ETS2-1(MA),* 6. MS-ETS2-2(MA), 7. MS-PS3-1, *7.MS-PS3-5*, *7.MS-ETS1-2*, 7.MS-ETS1-4, 7.MS-ETS1-7(MA), 8.MS-PS2-1, *8.MS-PS2-2, 8.MS-ETS2-4(MA)* |
| MA 7.3) **Matter Cycling & Photosynthesis** *(OSE 7.4)* | 6.MS-LS1-2, 7.MS-LS2-3, *8.MS-PS1-2* |
| MA 7.4) **Ecosystem Dynamics** | *6.MS-ETS1-1*, 7.MS-LS2-1, 7.MS-LS2-2, 7.MS-LS2-4, 7.MS-LS2-5, 7.MS-LS2-6(MA)*, 7.MS-ESS3-4, 7.MS-ETS1-2, 7.MS-ETS1-4* |
| MA 7.5) **Natural Resources & Human** | *7.MS-ESS3-3,* 7.MS-ESS3-4, 8.MS-ESS3-1, 8.MS-ESS3-5, *7.MS-ETS1-2* |
| MA 7.6) **Natural Hazards***(OSE 6.5)\** | *6.MS-ETS1-1;* 7.MS-ESS3-2; *7.MS-ETS1-2* |
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| **8th grade** | MA 8.1) **Weather** *(OSE 6.3)\** | *6.MS-PS4-2*, 7.MS-ESS2-4, 7.MS-ETS1-4, 8.MS-ESS2-5, 8.MS-ESS2-6, *8.MS-PS1-4* |
| MA 8.2) **Chemical Reactions & Matter (OSE 7.1)\*** | 8.MS-PS1-1, 8.MS-PS1-2, 8.MS-PS1-5 |
| MA 8.3) **Chemical Reactions & Energy** *(OSE 7.2)\** | 6.MS-PS1-6, *7.MS-ETS1-2, 7.MS-ETS1-4,* 7.MS-ETS1-7(MA) |
| MA 8.4) **Metabolic Reactions** *(OSE 7.3)\** | *8.MS-LS1-5*, 8.MS-LS1-7, 8. MS-PS1-1, 8.MS-PS1-2 |
| MA 8.5) **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 |
| MA 8.6) **Natural Selection & Ancestry** | *6.MS-LS4-1,* 6.MS-LS4-2, 7.MS-LS1-4, 8.MS-LS4-4 |

\* Indicates unit that appears in a different grade level in the OSE national sequence
Standards not addressed include 6.MS-PS1-8(MA); 6.MS-ETS1-1,5,6; 6.MS-ETS2-3(MA); 7.MS-ETS3-1-5(MA); 7.MS-PS2-3; 8.MS-ETS2-5(MA); Standards partially addressed but missing MA specific additions: 8.MS-ESS1-2 (ocean tides); 8.MS-PS1-1 (mixtures)