

South Carolina Science and Mathematical Standards Correlations for ScienceSouth's Hands-On Workshops and Assembly Shows

Individually, ScienceSouth's hands-on programming and assembly shows are appropriate for a range of ages and grade levels. Below you will find science and mathematical standards that are specifically addressed during the workshop or show. Workshops are not limited to the grade level(s) addressed by the standards; some of our programming is multidisciplinary and can be tailored or adjusted, content wise or to a degree of technical difficulty, to a particular grade level.

K-4th Grade Programs

☀️ **Animal Adventures (Life Science)**

Grade Levels: K-4th

Science Standards: K.S.1A.1, K.S.1A.3, K.S.1A.4, K.S.1A.5, K.S.1A.6, K.S.1A.7, K.S.1A.8, K.S.1B.1, K.L.2A.1, K.L.2A.3, K.L.2A.5, K.L.2A.6, 1.S.1A.1, 1.S.1A.3, 1.S.1A.4, 1.S.1A.5, 1.S.1A.6, 1.S.1A.7, 1.S.1A.8, 1.S.1B.1, 2.S.1A.1, 2.S.1A.3, 2.S.1A.4, 2.S.1A.5, 2.S.1A.6, 2.S.1A.7, 2.S.1A.8, 2.S.1B.1, 2.L.5A.1, 2.L.5A.2, 2.L.5B.1, 2.L.5B.3, 3.S.1A.1, 3.S.1A.3, 3.S.1A.4, 3.S.1A.5, 3.S.1A.6, 3.S.1A.7, 3.S.1A.8, 3.S.1B.1, 3.L.5A.1, 3.L.5A.2, 4.S.1A.1, 4.S.1A.4, 4.S.1A.5, 4.S.1A.6, 4.S.1A.7, 4.S.1A.8, 4.S.1B.1, 4.L.5A.1, 4.L.5A.3, 4.L.5B.1, 4.L.5B.3

Mathematics Standards: K.NS.1, K.NS.2, K.NS.4, K.NS.7, K.ATO.1, K.ATO.3, K.MDA.3, K.MDA.4, 1.NSBT.1, 1.ATO.5, 1.ATO.6, 1.MDA.4, 1.MDA.5, 2.MDA.9, 2.MDA.10, 3.MDA.3

☀️ **Mysteries of Mass (Formerly Named "Inquiry Science") (All Disciplines)**

Grade Levels: K-4th

Science Standards: K.S.1A.1, K.S.1A.2, K.S.1A.3, K.S.1A.4, K.S.1A.5, K.S.1A.6, K.S.1A.7, K.S.1A.8, K.S.1B.1, K.P.4A.1, K.P.4A.2, 1.S.1A.1, 1.S.1A.2, 1.S.1A.3, 1.S.1A.4, 1.S.1A.5, 1.S.1A.6, 1.S.1A.7, 1.S.1A.8, 1.S.1B.1, 2.S.1A.1, 2.S.1A.2, 2.S.1A.3, 2.S.1A.4, 2.S.1A.5, 2.S.1A.6, 2.S.1A.7, 2.S.1A.8, 2.S.1B.1, 3.S.1A.1, 3.S.1A.2, 3.S.1A.4, 3.S.1A.5, 3.S.1A.6, 3.S.1A.7, 3.S.1A.8, 3.P.2A.1, 4.S.1A.1, 4.S.1A.2, 4.S.1A.4, 4.S.1A.5, 4.S.1A.6, 4.S.1A.7, 4.S.1A.8

Mathematics Standards: K.NS.1, K.NS.2, K.NS.3, K.NS.4, K.NS.5, K.ATO.1, K.ATO.3, K.MDA.1, K.MDA.2, K.MDA.3, K.MDA.4, 1.NSBT.1, 1.ATO.5, 1.MDA.4

☀️ **Forces of Attraction (Physical Science)**

Grade Levels: K-3rd

Science Standards: K.S.1A.1, K.S.1A.4, K.S.1A.6, K.S.1A.7, K.S.1A.8, K.P.4A.1, K.P.4A.3, 1.S.1A.1, 1.S.1A.4, 1.S.1A.6, 1.S.1A.7, 1.S.1A.8, 2.S.1A.1, 2.S.1A.4, 2.S.1A.6, 2.S.1A.7, 2.S.1A.8, 2.P.3B.1, 2.P.3B.2, 2.P.3B.3, 3.S.1A.1, 3.S.1A.4, 3.S.1A.6, 3.S.1A.7, 3.S.1A.8

Mathematics Standards: Not applicable to workshop activities

☀️ **Soil Sleuths (Earth Science)**

Grade Levels: K- 4th

Science Standards: K.S.1A.1, K.S.1A.3, K.S.1A.4, K.S.1A.6, K.S.1A.7, K.S.1A.8, 1.S.1A.1, 1.S.1A.3, 1.S.1A.4, 1.S.1A.6, 1.S.1A.7, 1.S.1A.8, 1.E.4A.1, 1.E.4B.1, 2.S.1A.1, 2.S.1A.3, 2.S.1A.4, 2.S.1A.6, 2.S.1A.7, 2.S.1A.8, 3.S.1A.1, 3.S.1A.4, 3.S.1A.6, 3.S.1A.7, 3.S.1A.8, 3.E.4A.1, 4.S.1A.1, 4.S.1A.4, 4.S.1A.6, 4.S.1A.7, 4.S.1A.8

Mathematics Standards: K.ATO.1, K.MDA.4, 1.MDA.4, 1.MDA.5, 2.MDA.9, 2.MDA.10, 3.MDA.3

☀ **Circuitry: Making the Connection (Physical Science)**

Grade Level: 3rd

Science Standards: 3.S.1A.1, 3.S.1A.4, 3.S.1A.6, 3.S.1A.7, 3.S.1A.8, 3.P.3A.1, 3.P.3A.2

Mathematics Standards: Not applicable to workshop activities

3rd- 8th Grade Programs

☀ **Does Pollution Matter? (Earth Science and Chemistry)**

Grade Levels: 3rd- 6th

Science Standards: 3.L.5B.1, 3.E.4B.3, 3.E.4B.4, 4.E.2A.2, 5.P.2B.1, 5.P.2B.2, 5.P.2B.3, 5.P.2B.6, 5.E.3B.3, 5.E.3B.4, 6.E.2A.3

Mathematics Standards: 3.MDA.2 AND 4.NSBT.4

☀ **Bridge the Gap (Previously Named "Exploration and Experimentation")
(All Disciplines)**

Grade Levels: 3rd- 8th

Science Standards: 3.S.1A.1, 3.S.1A.3, 3.S.1A.4, 3.S.1A.5, 3.S.1A.6, 3.S.1A.7, 3.S.1A.8, 4.S.1A.1, 4.S.1A.3, 4.S.1A.4, 4.S.1A.5, 4.S.1A.6, 4.S.1A.7, 4.S.1A.8, 5.S.1A.1, 5.S.1A.3, 5.S.1A.4, 5.S.1A.5, 5.S.1A.6, 5.S.1A.7, 5.S.1A.8, 5.P.5A.4, 6.S.1A.1, 6.S.1A.3, 6.S.1A.4, 6.S.1A.5, 6.S.1A.6, 6.S.1A.7, 6.S.1A.8, 7.S.1A.1, 7.S.1A.3, 7.S.1A.4, 7.S.1A.5, 7.S.1A.6, 7.S.1A.7, 7.S.1A.8, 8.S.1A.1, 8.S.1A.3, 8.S.1A.4, 8.S.1A.5, 8.S.1A.6, 8.S.1A.7, 8.S.1A.8, 8.P.2A.1

Mathematics Standards: 3.MDA.3

☀ **JitterBots (Physical Science)**

Grade Level: 6th- 8th

Science Standards: 6.S.1A.1, 6.S.1A.3, 6.S.1A.6, 6.S.1A.7, 6.S.1A.8, 6.P.3A.3, 7.S.1A.1, 7.1A.3 (1)(2), 7.S.1A.6, 7.S.1A.8, 8.S.1A.1, 8.S.1A.3

Mathematics Standards: Not applicable to workshop activities

☀ **Small Life, Big World (Previously Named "Micro-Aquaria: Life in A Drop of Water")
(Life Science)**

Grade Levels: 5th- 7th

Science Standards: 5.S.1A.5, 5.S.1A.6, 5.L.4A.2, 5.L.4B.1, 5.L.4B.2 / 6.S.1A.5, 6.S.1A.6, 6.L.4A.2, 6.L.5A.1 / 7.S.1A.6, 7.L.3A.3

Mathematics Standards: 5.NSBT.2/6.NS.2/7.NS.2

☀ **Outrageous Optics (Physical Science)**

Grade Level: 4th

Science Standards: 4.S.1A.1, 4.S.1A.2, 4.S.1A.3, 4.S.1A.6, 4.S.1A.7, 4.S.1A.8, 4.P.4A.1, 4.P.4A.3, 4.P.4A.4, 4.P.4A.5

Mathematics Standards: 4.MDA.7 AND 5.ATO.2

☀ **Alternative Engineering (Previously Named Turbine Engineering) (Physical Science)**

Grade Level: 6th

Science Standards: 6.S.1A.3, 6.S.1B.1, 6.P.3A.1, 6.P.3A.2, 6.P.3A.3, 6.P.3A.4

Mathematics Standards: 6.NS.3, 6.GM.4

☀ **Futuristic Fuel Cells (Physical Science)**

Grade Levels: 6th & 7th

Science Standards: 6.S.1A.1, 6.S.1A.2, 6.S.1A.3, 6.S.1A.4, 6.S.1A.5, 6.S.1A.6, 6.S.1A.7, 6.E.2A.2, 6.P.3A.2, 6.P.3A.3, 6.P.3B.2, 7.S.1A.1, 7.S.1A.2, 7.S.1A.3, 7.S.1A.4, 7.S.1A.5, 7.S.1A.6, 7.S.1B.1, 7.P.2A.1, 7.P.2A.3, 7.P.2A.4, 7.P.2B.4, 7.P.2B.5

Mathematics Standards: 6.RP.1 AND 6.RP.2 (A)

☀ **DNA Extraction (Life Science)**

Grade Level: 7th Grade

Science Standards: 7.S.1A.2, 7.S.1A.6, 7.S.1A.7, 7.L.4A.1, 7.L.4A.2, 7.L.4A.5

Mathematics Standards: 7.GM.1

6th- 12th Grade Program

☀ **Automatic Artists (Art & Physical Science)**

Grade Levels: 6th- 12th

Science Standards: 6.S.1A.1, 6.S.1A.3, 6.S.1A.6, 6.S.1A.7, 6.S.1A.8, 6.P.3A.3, 7.S.1A.1, 7.1A.3 (1)(2), 7.S.1A.6, 7.S.1A.8, 8.S.1A.1, 8.S.1A.3

Mathematic Standards: Not applicable to workshop activities

9th- 12th Grade Programs

☀ **Cellular Respiration (Biology)**

High School Biology I

Science Standards: H.B.1A.1, H.B.1A.3, H.B.1A.4, H.B.1A.5, H.B.1A.6, H.B.1A.7, H.B.1A.8, H.B.3A.5

Mathematics Standards: FIF.6, NQ.1, SPID.7, A1.ACE.4

☀ **Genes In A Bottle (Biology)**

High School Biology I

Science Standards: H.B.1A.2, H.B.1A.6, H.B.1A.7, H.B.4A.1, H.B.4B.2

Mathematics Standards: Not applicable to workshop activities

☀ **Organic Synthesis (Chemistry)**

High School Chemistry I

Science Standards: H.C.1A.6, H.C.1A.7, H.C.2A.1, H.C.3A.1, H.C.3A.6, H.C.SA.1, H.C.6A.1, H.C.7A.3

Mathematics Standards: Not applicable to workshop activities

☀ **Water Quality (Biology, Chemistry, and Environmental Science)**

Grade Level 7, Chemistry I, & Environmental Science I

Science Standards: 7.P.2B.3, 7.S.1A.1, 7.S.1A.3, 7.S.1A.4, 7.S.1A.5, 7.S.1A.16, 7.S.1A.7, 7.S.1A.8, H.C.5A.4, H.C.1A.1, H.C.1A.3, H.C.1A.4, H.C.1A.5, H.C.1A.6, H.C.1A.7, H.C.1A.8, H.E.6A.1, H.E.6A.4, H.E.6A.5, H.E.1A.1, H.E.1A.3, H.E.1A.4, H.E.1A.5, H.E.1A.6, H.E.1A.7, H.E.1A.8

Mathematics Standards: 7.NS.4 AND 7.DSP.1 (a)(c)(d)

Assembly Shows

☀ All Systems Go (Astronomy/ Space)

Grade Levels: 4th & 8th

Science Standards: 4.E.3A.1, 4.P.4A.1, 4.E.3B.1 (1)(2), 5.P.5A.4, 8.P.2A.4, 8.P.2A.5, 8.E.4A.1, 8.E.4B.1, 8.E.4B.2, 8.E.4B.5

☀ Inquiring Minds (Physical Science)

Grade Levels: K-6th

Science Standards: K.P.4A.1, K.P.4A.2, K.P.4A.3, 1. P.2A.2, 2.P.3B.2, 2.P.4A.1, 2.P.4A.2, 2.P.4A.3, 2.PA.4, 3.P.2A.1, 3.P.2A.2, 3.P.2A.3, 3.P.3A.1, 3.P.3A.2, 4.E.2A.1, 4.P.4A.3, 4.P.4A.4, 5.P.4A.4, 5.P.5A.2, 5.P.5A.4, 6.E.2A.1, 6.P3A.2, 6.P.3A.4

☀ Radical Reactions (Chemistry)

Grade Level 7 & High School Chemistry I

Science Standards: 7.P.2B.1, 7.P.2B.3, 2.P.2B.4, 7.9.2B.5, 7.S.1A.1, 7.S.1A.3 (1), 7.S.1A.6, 7.S.1A.7, 7.S.1A.8 (1)(2)(4)(5), H.C.1A.1, H.C.1A.3 (1), H.C.1A.6, H.C.1A.7, H.C.1A.8 (1)(2)(4)(5), H.C.3A.1, H.C.3A.6, H.C.4A.1, H.C.5A.4, H.C.7A.3

☀ Scales and Tails (Life Science)

Grade Levels: K, 2nd, 4th, 5th, 6th, & 8th

Science Standards: K.L.2A.1, K.L.2A.5, K.L.2A.6, 2.L.5A.1, 2.L.5A.2, 2.L.5B.1, 2.L.5B.3, 4.L.5A.1, 4.L.5A.4, 4.L.5B.1, 4.L.5B.3, 5.L.4B.1, 5.L.4B.3, 6.L.4A.1, 6.L.4B.2, 6.L.4B.5, 8.E.6B.1

☀ Super Power Spectacle (Physical Science)

Grade Levels: K- 7th

Science Standards: K.P.4A.1, K.P.4A.2, 1.L.5B.3, 2.E.2A.3, 2.E.2A.4, 2.P.3A.3, 2.P.3B.2, 3.P.2A.1, 3.P.2A.2, 3.P.2A.3, 3.P.3A.1, 3P.3A.2, 4.E.2A.1, 4.P.4A.3, 4.P.4A.4, 5.P.5A.4, 6.E.2A.1, 6.P.3A.4, 7.P.2B.1

☀ Weather Wonders (Earth and Physical Sciences)

Grade Levels: 2nd-6th

Science Standards: 2.E.2A.1, 2.E.2A.4, 2.P.3A.1, 2.P.3A.3, 2.P.3A.4, 3.P.2A.2, 3.P.2A.3, 4.E.2A.1, 4.E.2A.2, 4.E.2B.1, 4.E.2B.2, 5.P.2A.1, 6.E.2A.1, 6.E.2A.3, 6.E.2B.1, 6.E.2B.2, 6.P.3A.1, 6.P.3A.4.

Digital StarLab Planetarium

☀ General Tour of the Galaxy (Astronomy)

Grade Levels: 4th & 8th

Science Standards: 4.E.3A.1, 4.E.3A.2, 4.E.3A.3, 4.E.3B.1, 4.P.4A.1, 8.E.4A.1, 8.E.4B.5.