

<b>Lesson</b>	<b>CCSS</b>	<b>NGSS</b>
<b>Elementary Lesson 1: The Science of Roller Skating</b>		
Topics Area, Geometry and Friction	K.CC.A.1 K.CC.A.3 K.CC.B.5 K.OA.A.1 K.G.A.2 1.G.A.1 2.G.A.1 3.G.A.1 4.MD.A.2	K-PS2-1 K-2-ETS1-1 K-2-ETS1-2 2-PS1-1 2-PS1-2 3-PS2-1 3-5-ETS1-1 4-PS3-1 4-PS3-2 5-PS1-3 5-PS2-1
<b>Elementary Lesson 2: Motion &amp; Rink Design</b>		
Topics Force/Friction, Diameter/Circumference	K.CC.A.3 K.CC.B.5 K.MD.A.1 1.NBT.B.2 1.MD.A.1 1.G.A.1 2.OA.C.4 2.G.A.1 3.G.A.1 4.NBT.B.4 4.MD.A.2	K-PS2-1 K-2-ETS1-1 K-2-ETS1-2 3-PS2-1 3-5-ETS1-1 4-PS3-1 4-PS3-2 5-PS2-1
<b>Elementary Lesson 3: Music, Math, &amp; Roller Skating</b>		
Topics Waves, Beats per Minute and Frequency & Speed	K.CC.A.3 K.CC.B.4 K.CC.B.5 3.OA.C.7 3.NBT.A.2 3.MD.A.1 3.MD.B.4 4.OA.A.2	1-PS4-1 4-PS3-2 4-PS4-1 3.OA.C.7 3.NBT.A.2 3.MD.A.1 3.MD.B.4 4.OA.A.2
<b>Elementary Lesson 4: Super Sound! Acoustics &amp; Rink Design</b>		
Topics Sound Systems, Frequency and Path of Sound	K.MD.B.3 3.OA.C.7 4.OA.A.2	1-PS4-1 4-PS3-2 4-PS4-1
<b>Elementary Lesson 5: Engineering Magic &amp; Lighting</b>		
Topics Type of Light and Lighting Design	3.OA.C.7 4.OA.A.2 4.MD.C.5	1-PS4-2 4-PS3-2 4-PS4-2

# Lesson CCSS NGSS

<b>Elementary Lesson 6: Heart, Health &amp; Fitness</b>	1.OA.A.1 2.OA.A.1	4-PS3-2 4-LS1-1 5-PS3-1
Topics Basic Anatomy, Heart Health, Calculating on Average		
<b>Elementary Lesson 7: Formulas, Fractions, &amp; Math; The Relationship Between Math &amp; Roller Skating</b>	3.OA.A.3 3.OA.A.4 3.G.A.1 4.OA.A.2 4.G.A.1 5.OA.A.2	
Topics Mean, Medium and Mode, Geometry and Calculating Speed		
<b>Middle Lesson 1: The Science of Roller Skating</b>	6.G.A.1 7.G.A.2	MS-ETS1-1 MS-ETS1-2 MS-ETS1-3
Topics Design, Geometry and Open Ended Design Program		
<b>Middle Lesson 2: Motion &amp; Rink Design</b>	6.EE.B.5 7.EE.B.3	MSETS1-1 MS-ETS1-2 MS-ETS1-3
Topic Ratio and Proportion, Calculating Distance		
<b>Middle Lesson 3: Music, Math, &amp; Roller Skating</b>		MS-PS4-1 MS-PS4-2
Topics Waves, Calculation of Beats per Minute, Frequency and Speed		
<b>Middle Lesson 4: Super Sound! Acoustics &amp; Rink Design</b>		MS-PS4-1 MS-PS4-2
Topics Sound System Design, Frequency and Path of Sound		
<b>Middle Lesson 5: Science of Lighting</b>	6.G.A.1 7.G.B.4	MS-PS4-1 MS-PS4-2
Topics Pythagorean Theorem, Lights and X,Y,Z, Axis	7.G.B.5 8.G.A.1 8.G.B.6 8.G.B.7 8.G.B.8	

<b>Lesson</b>	<b>CCSS</b>	<b>NGSS</b>
<b>Middle Lesson 6: Physics of Artistic Roller Skating</b>	6.EE.A.2	MS-PS2-2 MS-PS3-1
Topics Angular Momentum, Center of Mass and Projectile Motion		MS-PS3-2 MS-PS3-5
<b>Middle Lesson 7: Heart, Health &amp; Fitness</b>		MS-LS1-1 MS-LS1-3
Topics Cardiovascular System. Hearth Health and the Importance of exercise		
<b>Middle Lesson 8: Formulas, Fractions &amp; Math; The Relationship Between Math &amp; Roller Skating</b>	6.EE.A.2 6.SP.A.2 7.SP.A.1 7.SP.A.2 7.SP.B.3	