

Tuesday, August 8 th	Wednesday, August 9 th
<p><u>Launch - Vex modules</u> Presenter: Master Teacher Christi Davenport</p> <p><i>Hands-on module deep dives:</i></p> <ul style="list-style-type: none"> • 3 - Forces and Interactions • 4 - Energy Exploration • 5 - Robotics and Automation 	<p><u>Launch – Computer Science modules</u> Presenter: Master Teacher Christi Davenport</p> <p><i>Hands-on module deep dives:</i></p> <ul style="list-style-type: none"> • K - Animals and Algorithms • 1 - Animated Storytelling • 2 - Grids and Games • 3 - Programming Patterns • 4 - Input/Output: Computer Systems
<p><u>Launch – K-2 Module Extravaganza</u> Presenter: Master Teacher Sarah Orr</p> <p><i>Hands-on module deep dives:</i></p> <ul style="list-style-type: none"> • K - Structure and Function • K - Pushes and Pulls • 1 - Light and Sound • 2 - Properties of Matter 	<p><u>Automation and Robotics</u> Presenter: Master Teacher Jonathan Scrivner</p> <p><i>This session will include:</i></p> <ul style="list-style-type: none"> • Highlight of updated AR Unit content: What's new & why? • Deep Dive of Lesson 1 Builds & Concepts: Hands-on walkthrough. • Look ahead to Lesson 2 & Lesson 3: key components and implementation thoughts.
<p><u>Design and Modeling</u> The focus of this workshop will be a hands-on look at some of the more challenging/time consuming projects in the curriculum. Specific activities covered coming soon.</p>	<p><u>Principles of Engineering</u> The focus of this workshop will be a hands-on look at the curriculum updates. Specific activities covered coming soon.</p>
<p><u>App Creators & CS for Innovators and Makers</u> Presenter: Master Teacher Stephanie Racine</p> <p><i>Activities covered:</i></p> <ul style="list-style-type: none"> • CSIM: 2.3 Radio sending wireless signals • CSIM: Sensor Wiring (using multiple inputs and outputs at once) • AC: 1.8 Moving Fast & Good Excuse (Attendee build) • AC: Lesson 2 (discussions around taking the best from the old and the new!) 	<p><u>Principles of Biomedical Science</u> Presenter: Master Teacher Becky Howell</p> <p><i>Activities covered:</i></p> <ul style="list-style-type: none"> • Coming Soon!
<p><u>VEX V5 (Automation and Robotics & Principles of Engineering)</u> Presenter: Master Teacher Jonathan Scrivner</p> <p><i>Skills covered:</i></p> <ul style="list-style-type: none"> • Platform Overview: Notable Features • Programming with VEXcode • Using the Smart Motor • Using the Optical & Distance Sensors: Environmental Feedback & Conditional Programming • Using Variables and Functions in VEXcode 	<p><u>Python (Computer Science Essentials & Computer Science Principles)</u> Presenter: Master Teacher Katie Cunningham</p> <p><i>Concepts covered:</i></p> <ul style="list-style-type: none"> • Blocks to text transition & basics to Python • Implementation of Core Concepts (attendees will complete a project)
<p><u>Introduction to Engineering Design</u> Presenter: Master Teacher Corey Duzan</p> <p><i>Activities covered:</i></p> <ul style="list-style-type: none"> • 2.2.1 What is Reverse Engineering • 2.2.2-2.2.4 Visual, Functional, Structural Analysis (Coffee Maker) • 3.1.1 Reverse Engineer a Product (Solar Calculator) • 4.1.1 Reverse Engineering a Mechanism (Wind-Up Toy) • Fusion skills required to do reverse engineering 	<p><u>Teacher Moves in a Student Driven Classroom</u> Presenters: Lindsey Ayers, Stephanie Racine, & Corey Duzan</p> <p>This workshop will focus on different tips and tricks for teacher moves in a student driven classroom, e.g.: art of questioning, providing meaningful feedback, and framing a lesson.</p>
<p><u>Human Body Systems</u> Presenter: Master Teacher Danielle Weber</p> <p>The focus of this workshop will be a hands-on look at the curriculum updates. Specific activities covered coming soon.</p>	<p style="text-align: center;">Thursday August 10th Offsite (TBD High School in Worcester)</p> <p><u>Computer Integrated Manufacturing</u> The focus of this workshop will be a hands-on look at some of the more challenging/time consuming projects in the curriculum. Specific activities covered coming soon.</p>