

7th Grade iExplore Lab Scope and Sequence: 2021-2022

Sixth through eighth grade students are offered electives unique to each campus based on their signature programs. The scope and sequence will align with each specific elective. Elective courses will include discussions about related STEM career pathways and Dysart CTE programs.

Topics	Design Thinking Process	Digital Citizenship	Technology Skills	Career Exploration
Learning Objectives	Students will use a variety of resources within a design process to identify and solve problems by creating new, useful or imaginative solutions.	<p>Students will recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world.</p> <p>Students will act and model in ways that are safe, legal and ethical.</p> <p><i>(Because we no longer are required to have the core class you can fit the digital citizenship lessons in where you can.)</i></p>	Students will understand the fundamental concepts of technology operations, demonstrate the ability to choose, use and troubleshoot current technologies and are able to transfer their knowledge to explore emerging technologies.	<p>Students will:</p> <ul style="list-style-type: none"> Gain a better understanding of their strengths and skills Reflect on how their strengths can be used to accomplish their goals Students will have opportunities to explore DUSD CTE pathways and begin discussing a high school course plan. <p>ECAP Scope and Sequence (Working Copy- June 2020)</p>
Academic Vocabulary	brainstorm design thinking empathize define ideate prototype test blueprint communication creativity critical thinking collaboration	digital footprint alteration distortion online only in-person face-to-face upstanding dilemmas privacy policies targets stereotypes copyright cyberbullying	site-specific tech robotics coding	career clusters occupation CTE transcript trade school GPA honors AP dual enrollment
Lessons and Resources	Design Thinking Website Defined Learning protocol	Common Sense Media: updated Gr 7 Lessons My Media Use- Personal	CS First Coding Kits	<p>Students will complete the 7th grade section of the ECAP MIDDLE</p>

<p>Project Ideas</p> <p>PBSkids Design Squad Design Thinking Process</p> <p>Design Thinking Process TEMPLATE</p> <p>*Give simple directions*</p> <p>Create a robot that:</p> <ul style="list-style-type: none"> -is original -is presentable -can complete a task on its own -solves a problem <p>Create a boat:</p> <ul style="list-style-type: none"> -no more than 12 inches long -no more than 5 inches wide -has to hold 50 grams of weight -move from one side to another without you touching it <p>STEM lessons & resources: Try Engineering</p> <p>teachengineering.org</p> <p>vivifystem.com/</p> <p>Maricopa Co STEM Resources</p> <p>cyber.org</p> <p>Facilitative Questions for Maker Activities</p>	<p>Challenge</p> <p>What is your strategy for finding media balance?</p> <p>The Power of Digital Footprints What is a digital footprint, and what does yours convey?</p> <p>My Social Media Life How does social media affect our relationships?</p> <p>Optional: Upstanding and Allies How can you respond when cyberbullying occurs?</p> <p>-Commonsensemedia</p> <p>Digital Footprint Article</p> <p>Be Internet Awesome Curriculum - lessons</p> <p>Interland: Dig Cit Game Be Internet Awesome PD</p>	<p>CodeHS Middle School courses: coding, web design, virtual reality, etc.</p> <p>CodeHS.com</p> <p>CodeHS.com VR Scratch.mit.edu</p> <p>Code.org- grade level curriculum</p> <p>Virtual VEX coding: https://vr.vex.com/</p> <p>Coding Facilitative Questions</p> <p>Google Applied Digital Skills</p> <p>Exploring Google Docs: Google Docs Scavenger Hunt for Students</p> <p>Tinkercad</p>	<p>SCHOOL DUSD spreadsheet. Assign a Google Drive assignment in Schoology to create a copy for each student. Students will also access this same document in 8th grade. Students will add this document to their Schoology portfolio to access in 8th grade and high school.</p> <p>DUSD ECAP Scope and Sequence (Grades 5-8) - review for additional resources</p> <p>Transition to High School</p> <ul style="list-style-type: none"> ● Plan of Study- Look at courses that will need to be selected for high school course selection. Dysart Course Selection Guide 2021-22 ● Include CTE courses that you will take. <p>Career Exploration</p> <ul style="list-style-type: none"> ● Major Clarity-Lesson plans ● Click on pathway links to explore Dysart CTE Pathways. ● Identify two CTE Pathways that you are interested in.
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Assessments	<p>Students have a design thinking rubric and do self assessments as well as peer assessments during their lessons.</p> <p>iExplore Rubric</p>	<p>Interland curriculum has an assessment at the end of each lesson. Students cannot move on until they pass the assessment.</p>		
Suggested Standards	<p>ISTE Standards</p>	<p>Arizona Computer Science Standards</p>	<p>K-12 Computer Science Framework</p> <p>ISTE Standards</p> <p>Arizona Computer Science Standards</p>	