

## College, Career and Technical Education – STEM Academic Competitions/Extended Learning

2019-2020

### Overview

The following information is intended to support parents with understanding shifts in expectations for STEM jobs and careers. Shelby County Schools provides students with online learning activities connected to STEM careers. These experiences may include, but are not limited to; computer aided drafting, career exploration, critical thinking in STEM, and computational thinking.

### STEM Quick Facts

*How will we prepare students for academic success?*

Our state has adopted new standards because we understand that an effective education will pave the way for more opportunities in high school, college, and future careers. As the new standards are implemented in schools across our district, they will enable students to: develop a deeper understanding of the real world beyond memorizing facts and experience similar practices as those used by STEM professionals in the field.

### Grades: 6 – 12 STEM

<u>Platform</u>	<u>Description</u>	<u>Connected Pathway(s)</u>	<u>How to Access</u>
<a href="#">EverFi</a>	Everfi offers teachers and students virtual courses on life skills topics such as financial capabilities, diversity and inclusion, career leadership and success, STEM, and health and wellness. Courses incorporate 3D games, models, simulations, social media, activities, exercises and animations to deliver these curriculums to students. Everfi is free for teachers.	<ul style="list-style-type: none"><li>• Advanced STEM Applications</li><li>• Middle School STEM</li><li>• Science</li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Access for Students</a></li><li>• Available on Clever</li></ul>
<b>Learning Blade</b>	<i>The program is designed to create a STEM context for all academic classrooms including English, math, social studies and science. Students solve the missions while learning about associated STEM careers and technologies by completing short online lessons that demonstrate the</i>	<ul style="list-style-type: none"><li>• Advanced STEM Applications</li><li>• Middle School STEM</li></ul>	<ul style="list-style-type: none"><li>• Available on Clever</li></ul>

	<i>connection between the STEM topics and academic skills. As students complete the lessons, they answer questions tied to specific academic standards.</i>		
<a href="#"><u>Mid-South Works</u></a>	Get inspired by exciting jobs available right in your own community! Students explore careers with current videos and complete activities that build life skills.	<ul style="list-style-type: none"> <li>• Advanced STEM Applications</li> <li>• Middle School STEM</li> </ul>	<ul style="list-style-type: none"> <li>• Available via Clever</li> </ul>
<a href="#"><u>AutoDesk Design Academy</u></a>	Engineering drawings are a universal language for engineers. They're how engineers communicate. So, it's very important to know how to read and create drawings. In this course you'll start by creating 2D drawings in AutoCAD, and then move to parametric 3D modeling in Autodesk Inventor. You'll also learn how to collaborate with a global design team using Autodesk 360 cloud technology.	<ul style="list-style-type: none"> <li>• Advanced STEM Applications</li> <li>• Engineering</li> </ul>	
<a href="#"><u>Khan Academy</u></a>	<p><b>Start from the basics</b></p> <p>Learn the basics, starting with Intro to programming.</p>	<ul style="list-style-type: none"> <li>• Programming</li> <li>• Middle School Science</li> </ul>	<ul style="list-style-type: none"> <li>• Available via Clever</li> </ul>