Computer Science Education Week (CSEd Week): December 4-8
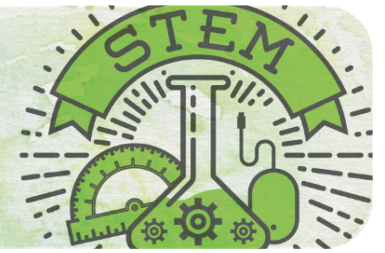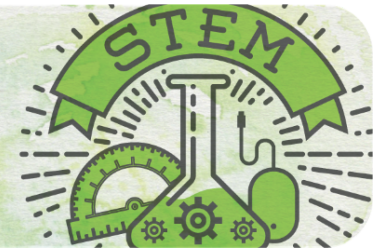
The STEM team has collaborated with STEM Teacher Leader Advisors and our STEM Pathway providers to generate the sample activities below that could be utilized during CSEd week. These activities are designed to be 30-45 minutes in duration, arranged with a suggested daily focus topic, and assembled below for grades K-2. The list also lists the level of computer science the teacher may need in order to facilitate the activity. The theme of this year's CSEd Week is **Computer Science (CS) Everywhere!,** highlighting the impact computer science has on our students' world. **If you have questions please contact STEM@la.gov.**

Day of the week	Focus Topic	Description
Monday	**Cybersecurity and Cybersafety**	Helping students understand cybersecurity with grade appropriate resources
Tuesday	**Computer Science Career Exploration**	What are the CS careers in Louisiana? Nationally? What do we do to prepare for them?
Wednesday	**Computer Coding**	Computer Coding resources and activities for students and their families
Thursday	**Responsible Social Media Awareness and Usage**	How to avoid cyberbullying and the best practices for responsible Social Media usage
Friday	**Applying CS to Your Students' Interests**	CS unplugged activities using hands-on learning, robotics, digital media, computational thinking, data analysis, digital photography, and opportunities to showcase CS courses that are active in your school/community.

If your school would like a visitor to share in the excitement and fun of your activity please complete this form.

Please use the following social media tags so we can help celebrate your event: @LABelieves, @LACSEdWeek, @CSLA, and @LASTEM.
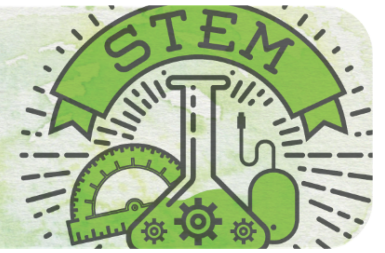
K-2 Suggested Resources

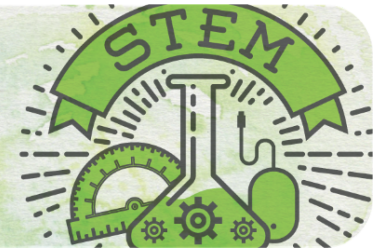| Day of the Week	Description of Resource/ How to use/ Website Link	Teacher CS Experience Needed
Monday	Common Sense Education has 2 great resources to help engage students with creating secure passwords and choosing what information is private versus shareable online. Both resources are free and do not require a download. These can be done individually on a 1:1 device or as a class discussion.	No CS Teaching Experience Needed
Monday and/or Tuesday	Cyber.org offers lessons that highlight many aspects of cybersecurity, cyber safety, cyber bully prevention, and digital citizenship. Teachers will need to preview and select the lesson they wish to utilize prior to the resource use.	Familiarity with CS skills and teaching are suggested; Teachers will need to create a free account with cyber.org in advance of accessing resources
Tuesday	Exploring Computer Science Careers with Younger Students is a resource from Code.org. This resource allows you to access videos, schedule virtual field trips, and locate guest speakers for CS career exploration.	No CS Teaching Experience Needed; Planning and arrangement ahead of time will be needed to secure some speakers
Wednesday	Tynker is an online learning platform that introduces children to the joy of coding. Teachers can create a free account and add their students to the class for them to begin guided coding lessons.	Some CS Teaching Experience Suggested
Wednesday	The Hour of Code is a global movement reaching tens of millions of students in 180+ countries. Anyone, anywhere can organize an Hour of Code event or try any of the over 500+ one-hour tutorials, available in over 45 languages.	No CS Teaching Experience Needed

K-2 Suggested Resources (Continued)

Day of the Week	Description of Resource/ How to use/ Website Link	Teacher CS Experience Needed
Wednesday	Scratch Jr. is a way for students ages 5-7 to explore block based coding. To use this resource students will need a device that has the free App installed on it. A free library of activities and lessons are available for teachers.	A familiarity with coding is recommended to facilitate this resource.
Wednesday	Khan Academy has developed a resource that uses Python and HTML to help students explore coding. Students can choose between learning the basics of Python or the basics of web design as they work to solve litter and waste product clean-up. This free resource allows students to explore at their own pace.	No CS Teaching Experience Needed
Thursday	Cyber.org has grade level lessons that you can access. These lessons highlight many aspects of cybersecurity, cyber safety, cyber bully prevention, and digital citizenship. Teachers will need to preview and select the lesson they wish to utilize prior to the resource use.	Familiarity with CS skills and teaching are suggested; Teachers will need to create a free account with cyber.org in advance of accessing resources.
Friday	CS Unplugged is a collection of free teaching materials that engage students with hands-on games, puzzles, and activities that involve computing. These lessons use cards, string, crayons, and moving around to experience CS without a computer!	No CS Teaching Experience Needed
Friday	NASA's Space Place has a game that combines coding with Exploring Mars. The game is designed for grades K-4 and contains images, facts, and technology tools that are used by NASA scientists. This is a 1:1 device activity.	No CS Teaching Experience Needed

K-2 Suggested Resources (Continued)

Day of the Week	Description of Resource/ How to use/ Website Link	Teacher CS Experience Needed
Friday	Scratch allows students to create animations using block based coding. The website hosts a variety of teacher shared lessons and student projects to help inspire students. This can be done offline using coding cards that you print out. The cards allow for a variety of fun real-world activities that students can act out.	No CS Teacher Experience Needed
Friday	Carnegie Mellon University offers free resources to try coding with guidance. Learn how to draw with code, change behavior of objects with code, and make actions occur with mouse clicks. No student or teacher accounts are needed and self paced instruction is provided to users.	No CS Teacher Experience Needed