P.Cert.Grade 8 November Copied from: Grade 8, Copied on: 09/15/21

Content Area: **Technology**
Course(s):
Time Period: **November**
Length: **4-5 Weeks**
Status: **Published**

Unit Overview

Students will participate in Code-A-Thon.

Enduring Understandings

Coding is the lanuage we use to write programming.

Essential Questions

How do we write efficient code?

Instructional Strategies & Learning Activities

Objective: **SCRATCH - Create a Message (complete today)**
The student will be able to create an animated message using Scratch.

Differentiation:
All aspects of code build - sprite, backdrops, animations, etc.

Assessment:
Rubric

OBJECTIVE: Code-A-Thon Week provided by Learning.com
The student will be able to explore coding activities utilizing the Python language during a week of FREE access to Codesters online activities focused on basic programming structures, debugging, and troubleshooting.

. Continue to subsequent Codesters Lessons as time permits during free access Code-A-Thon week.

Objective: 'Thank You' Archie Fagan
The student will be able to write a Thank You note to Archie for his Veterans Day presentation in November. All notes will be created using Word for creative purposes.

Differentiation:
Original letters and artwork

Assessment:
Rubric

Integration of 21st Century Themes and Career Exploration

CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.
CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP5	Consider the environmental, social and economic impacts of decisions.
CRP.K-12.CRP6	Demonstrate creativity and innovation.
CRP.K-12.CRP7	Employ valid and reliable research strategies.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP9	Model integrity, ethical leadership and effective management.
CRP.K-12.CRP11	Use technology to enhance productivity.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

Technology Integration

See activities above and standards below.

Interdisciplinary Connections

LA.RI.8.1	Cite the textual evidence and make relevant connections that most strongly supports an analysis of what the text says explicitly as well as inferences drawn from the text.
LA.RI.8.4	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts.
LA.RI.8.7	Evaluate the advantages and disadvantages of using different mediums (e.g., print or digital text, video, multimedia) to present a particular topic or idea.
LA.RI.8.10	By the end of the year read and comprehend literary nonfiction at grade level text-complexity or above, with scaffolding as needed.
LA.W.8.1	Write arguments to support claims with clear reasons and relevant evidence.
LA.W.8.6	Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas efficiently as well as to interact and collaborate with others.
LA.W.8.7	Conduct short research projects to answer a question (including a self-generated

	question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.
LA.SL.8.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.
LA.SL.8.5	Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.
LA.L.8.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
LA.L.8.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
LA.L.8.4	Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on grade 8 reading and content, choosing flexibly from a range of strategies.
LA.L.8.6	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.

Differentiation

Differentiation will be offered as listed in the above activities.

Modifications & Accommodations

IEP and 504 Accommodations will be utilized.

Benchmark Assessments

Teacher made assessments to measure growth.

Formative Assessments

Discussion

Teacher observation

projects

Summative Assessments

Projects

Assessments listed above

Instructional Materials

Materials as needed for projects

Standards

LA.W.8.4	Produce clear and coherent writing in which the development, organization, voice and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1–3 above.)
TECH.8.1.8.A.2	Create a document (e.g., newsletter, reports, personalized learning plan, business letters or flyers) using one or more digital applications to be critiqued by professionals for usability.
TECH.8.2.5.E.4	Use appropriate terms in conversation (e.g., algorithm, program, debug, loop, events, procedures, memory, storage, processing, software, coding, procedure, and data).
TECH.8.2.8.E.1	Identify ways computers are used that have had an impact across the range of human activity and within different careers where they are used.
TECH.8.2.8.E.2	Demonstrate an understanding of the relationship between hardware and software.
TECH.8.2.8.E.3	Develop an algorithm to solve an assigned problem using a specified set of commands and use peer review to critique the solution.
TECH.8.2.8.E.4	Use appropriate terms in conversation (e.g., programming, language, data, RAM, ROM, Boolean logic terms).
TECH.8.2.8.E.CS1	Computational thinking and computer programming as tools used in design and engineering.