Feb. Grade 2

Content Area: **Technology**

Course(s): Time Period:

Length: Status: February 4-5 Weeks Published

Unit Overview

Students will be introduced to Coding using activities in Code.org.

Students will create a poster digitally.

Enduring Understandings

Coding is the language that makes computers work.

Essential Questions

How do we write code?

Instructional Strategies & Learning Activities

Objective: Intro to Coding - ONLINE activites code.org (Course C) NEW Day 1

The student will be able to begin to learn and understand basic concepts about coding creating code in a "blockly" language which writes Javascript 'under the hood'.

Differentiation:

Self-paced

Assessment:

Teacher dashboard reports

Objective: Intro to Coding - ONLINE activites code.org (Course C) NEW Day 1 or Day 2

The student will be able to begin to learn and understand basic concepts about coding creating code in a "blockly" language which writes Javascript 'under the hood'.

Differentiation:

Self-paced

Assessment:

Teacher dashboard reports

Objective: Intro to Coding - ONLINE activites code.org (Course C)

The student will be able to begin to learn and understand basic concepts about coding creating code in a "blockly" language which writes Javascript 'under the hood'.

Differentiation:

Self-paced

Assessment:

Teacher dashboard reports

Objective: Lorax "Poster" in Pixie - How to Be Green

The student will be able to create an 8 1/2" X 11" poster to help The Lorax convey the message about ways to protect our environment.

Differentiation:

All artistic elements and additional "T" tools for original ideas

Assessment:

Printed Lorax Posters

Integration of Career Readiness, Life Literacies and Key Skills

Students will learn about careers in coding.

WRK.9.1.2.CAP	Career Awareness and Planning
WRK.9.1.2.CAP.1	Make a list of different types of jobs and describe the skills associated with each job.
TECH.9.4.2.Cl.1	Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).
TECH.9.4.2.CI.2	Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).
TECH.9.4.2.CT.3	Use a variety of types of thinking to solve problems (e.g., inductive, deductive).
TECH.9.4.2.DC.6	Identify respectful and responsible ways to communicate in digital environments.
TECH.9.4.2.TL.1	Identify the basic features of a digital tool and explain the purpose of the tool (e.g., 8.2.2.ED.1).
	Individuals should practice safe behaviors when using the Internet.
	Brainstorming can create new, innovative ideas.
	Critical thinkers must first identify a problem then develop a plan to address it to effectively solve the problem.
	Different types of jobs require different knowledge and skills.

Technology and Design Integration

See activities and standards below.

CS.K-2.8.1.2.AP.1	Model daily processes by creating and following algorithms to complete tasks.
CS.K-2.8.1.2.AP.2	Model the way programs store and manipulate data by using numbers or other symbols to represent information.
CS.K-2.8.1.2.AP.3	Create programs with sequences and simple loops to accomplish tasks.
CS.K-2.8.1.2.AP.4	Break down a task into a sequence of steps.
CS.K-2.8.1.2.CS.1	Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences.
CS.K-2.8.1.2.CS.2	Explain the functions of common software and hardware components of computing systems.
CS.K-2.AP	Algorithms & Programming
	People work together to develop programs for a purpose, such as expressing ideas or addressing problems. The development of a program involves identifying a sequence of events, goals, and expected outcomes, and addressing errors (when necessary).
	Real world information can be stored and manipulated in programs as data (e.g., numbers,

words, colors, images).

Describing a problem is the first step toward finding a solution when computing systems

do not work as expected.

Individuals use computing devices to perform a variety of tasks accurately and quickly. Computing devices interpret and follow the instructions they are given literally.

A computing system is composed of software and hardware.

Individuals develop and follow directions as part of daily life. A sequence of steps can be expressed as an algorithm that a computer can process.

Complex tasks can be broken down into simpler instructions, some of which can be broken down even further.

Computers follow precise sequences of steps that automate tasks.

Interdisciplinary Connections

LA.RI.2.1	Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.
LA.RI.2.2	Identify the main topic of a multiparagraph text as well as the focus of specific paragraphs within the text.
LA.RI.2.4	Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.
LA.RI.2.5	Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.
LA.RF.2.3	Know and apply grade-level phonics and word analysis skills in decoding words.
LA.W.2.6	With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers.
LA.SL.2.1	Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.
LA.L.2.1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

Differentiation

- Understand that gifted students, just like all students, come to school to learn and be challenged.
- Pre-assess your students. Find out their areas of strength as well as those areas you may need to address before students move on.
- Consider grouping gifted students together for at least part of the school day.
- Plan for differentiation. Consider pre-assessments, extension activities, and compacting the curriculum.
- Use phrases like "You've shown you don't need more practice" or "You need more practice" instead of words like "qualify" or "eligible" when referring to extension work.
- Encourage high-ability students to take on challenges. Because they're often used to getting good grades, gifted students may be risk averse.

• Definitions of Differentiation Components:

- Content the specific information that is to be taught in the lesson/unit/course of instruction.
- o Process how the student will acquire the content information.
- o Product how the student will demonstrate understanding of the content.
- Learning Environment the environment where learning is taking place including physical location and/or student grouping

Differentiation occurring in this unit:

When differentiation applies, it is listed in the sections above.

Modifications & Accommodations

Refer to QSAC EXCEL SMALL SPED ACCOMMOCATIONS spreadsheet in this discipline.

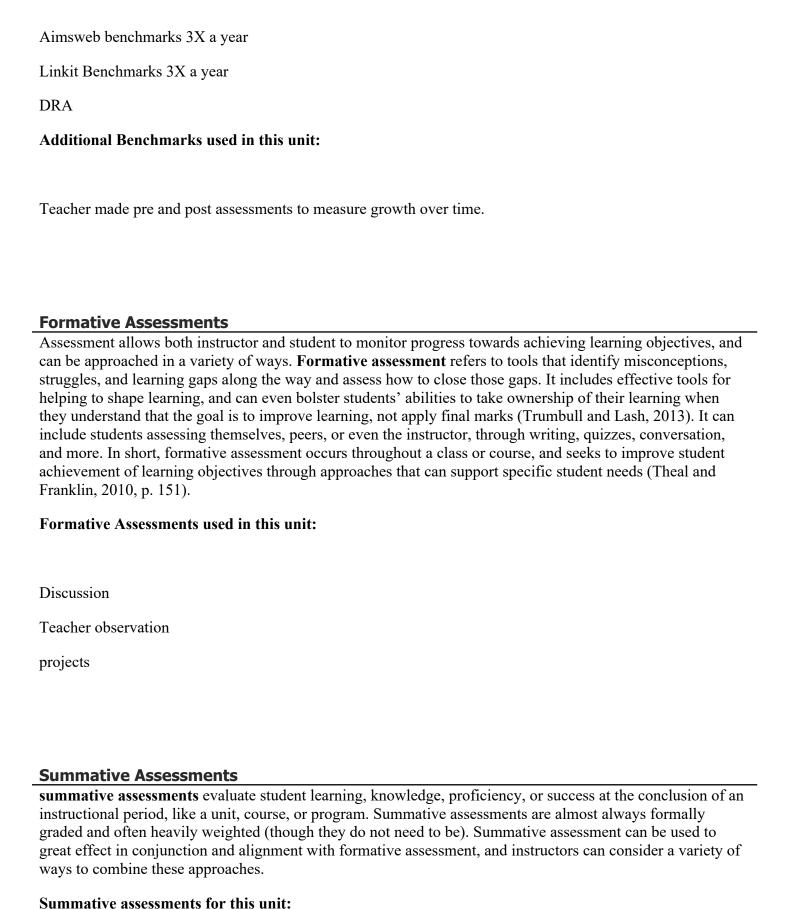
Modifications and Accommodations used in this unit:

IEP and 504 accommodations will be utilized.

Benchmark Assessments

Benchmark Assessments are given periodically (e.g., at the end of every quarter or as frequently as once per month) throughout a school year to establish baseline achievement data and measure progress toward a standard or set of academic standards and goals.

Schoolwide Benchmark assessments:



Final projects
See assessment listed above.
Instructional Materials
Materials as need for projects.
Standards
See Technology Standards above.