

# Feb. Gr. 3 February

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

## Unit Overview

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Students will learn coding using On-line resource, Code.org.

Students will create a recipe card in honor of Read across America day.

## Enduring Understandings

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Coding is the language we use to write programming.

## Essential Questions

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How do we write and edit code?

## Instructional Strategies & Learning Activities

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

The student will be able to begin to learn and understand basic concepts about coding - algorithms, loops, & conditionals - 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 D) (Snow day last wk, not all gr 3 met)

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

### Differentiation:

Self-paced

### Assessment:

Teacher dashboard reports

## Objective: Green Eggs and Ham 'Read Across America' Recipe Card in MS Word

The student will be able to create a recipe card to include both ingredients and procedures to make Green Eggs and Ham in the spirit of Read Across America and Dr. Seuss' birthday celebration.

### Differentiation:

All creative elements are student choice, and students may add creative touches with clip art.

### Assessment:

Printed Recipe Cards

## Integration of Career Readiness, Life Literacies and Key Skills

WRK.9.2.5.CAP	Career Awareness and Planning
WRK.9.2.5.CAP.1	Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
WRK.9.2.5.CAP.2	Identify how you might like to earn an income.
WRK.9.2.5.CAP.3	Identify qualifications needed to pursue traditional and non-traditional careers and occupations.
TECH.9.4.5.CI.1	Use appropriate communication technologies to collaborate with individuals with diverse perspectives about a local and/or global climate change issue and deliberate about possible solutions (e.g., W.4.6, 3.MD.B.3,7.1.NM.IPERS.6).
TECH.9.4.5.CI.4	Research the development process of a product and identify the role of failure as a part of the creative process (e.g., W.4.7, 8.2.5.ED.6).
TECH.9.4.5.CT.4	Apply critical thinking and problem-solving strategies to different types of problems such as personal, academic, community and global (e.g., 6.1.5.CivicsCM.3).
TECH.9.4.5.TL.1	Compare the common uses of at least two different digital tools and identify the advantages and disadvantages of using each.
TECH.9.4.5.TL.3	Format a document using a word processing application to enhance text, change page formatting, and include appropriate images graphics, or symbols.
TECH.9.4.5.IML	Information and Media Literacy
TECH.9.4.5.IML.1	Evaluate digital sources for accuracy, perspective, credibility and relevance (e.g., Social Studies Practice - Gathering and Evaluating Sources).
TECH.9.4.5.IML.2	Create a visual representation to organize information about a problem or issue (e.g., 4.MD.B.4, 8.1.5.DA.3).  Digital tools and media resources provide access to vast stores of information, but the information can be biased or inaccurate.  The ability to solve problems effectively begins with gathering data, seeking resources, and applying critical thinking skills.  An individual's passions, aptitude and skills can affect his/her employment and earning potential.  Different digital tools have different purposes.  Collaboration with individuals with diverse perspectives can result in new ways of thinking and/or innovative solutions.

## Technology and Design Integration

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See activities and standards below.

CS.3-5.8.1.5.AP.1	Compare and refine multiple algorithms for the same task and determine which is the most appropriate.
CS.3-5.8.1.5.AP.2	Create programs that use clearly named variables to store and modify data.
CS.3-5.8.1.5.AP.3	Create programs that include sequences, events, loops, and conditionals.
CS.3-5.8.1.5.AP.4	Break down problems into smaller, manageable sub-problems to facilitate program development.
CS.3-5.8.1.5.AP.6	Develop programs using an iterative process, implement the program design, and test the program to ensure it works as intended.
CS.3-5.8.1.5.CS.1	Model how computing devices connect to other components to form a system.
CS.3-5.8.1.5.CS.2	Model how computer software and hardware work together as a system to accomplish tasks.
CS.3-5.AP	Algorithms & Programming
CS.3-5.CS	Computing Systems
	A variety of control structures are used to change the flow of program execution (e.g., sequences, events, loops, conditionals).
	Computing devices may be connected to other devices to form a system as a way to extend their capabilities.
	Shared features allow for common troubleshooting strategies that can be effective for many systems.
	Individuals develop programs using an iterative process involving design, implementation, testing, and review.
	Software and hardware work together as a system to accomplish tasks (e.g., sending, receiving, processing, and storing units of information).
	Different algorithms can achieve the same result. Some algorithms are more appropriate for a specific use than others.
	Programming languages provide variables, which are used to store and modify data.

## Interdisciplinary Connections

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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.2.4	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.RI.2.7	Explain how specific illustrations and images (e.g., a diagram showing how a machine works) contribute to and clarify a text.
LA.RF.2.3	Know and apply grade-level phonics and word analysis skills in decoding words.
LA.RF.2.4	Read with sufficient accuracy and fluency to support comprehension.
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.
LA.L.3.2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

## **Differentiation**

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- 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.
  - Process – how the student will acquire the content information.
  - 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:**

Differentiation will be offered as listed in the above activities.

## **Modifications & Accommodations**

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

### **Modifications and Accommodations used in this unit:**

IEP and 504 accommodations will be utilized.

## **Benchmark Assessments**

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**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:**

Aimsweb benchmarks 3X a year

Linkit Benchmarks 3X a year

DRA

### **Additional Benchmarks used in this unit:**

Teacher made pre and post assessments to measure growth over time.

## **Formative Assessments**

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Assessment allows both instructor and student to monitor progress towards achieving learning objectives, and can be approached in a variety of ways. **Formative assessment** refers to tools that identify misconceptions, struggles, and learning gaps along the way and assess how to close those gaps. It includes effective tools for helping to shape learning, and can even bolster students' abilities to take ownership of their learning when they understand that the goal is to improve learning, not apply final marks (Trumbull and Lash, 2013). It can include students assessing themselves, peers, or even the instructor, through writing, quizzes, conversation, and more. In short, formative assessment occurs throughout a class or course, and seeks to improve student achievement of learning objectives through approaches that can support specific student needs (Theal and Franklin, 2010, p. 151).

### **Formative Assessments used in this unit:**

Discussion

Teacher observation

projects

## **Summative Assessments**

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**summative assessments** evaluate student learning, knowledge, proficiency, or success at the conclusion of an instructional period, like a unit, course, or program. Summative assessments are almost always formally graded and often heavily weighted (though they do not need to be). Summative assessment can be used to great effect in conjunction and alignment with formative assessment, and instructors can consider a variety of

ways to combine these approaches.

**Summative assessments for this unit:**

Final projects

Assessments listed above.

**Instructional Materials**

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Materials as needed for projects.

**Standards**

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See Standards Above