

# Oct. Gr. 8 Technology

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

## Unit Overview

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Students will continue college cost project and work with SmartArt and Hyperlink.

## Enduring Understandings

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We can create professional presentations using technology.

## Essential Questions

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How do we use SmartArt and Hyperlinks?

## Instructional Strategies & Learning Activities

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### Objective: Excel & Internet: Comparing College Costs

The student will be able to research current costs of college tuition and fees at various types of colleges & universities throughout the United States to compare expenses visually in a bar graph.

### Differentiation:

Students choose all data

### Assessment:

Rubric

### Objective: Amendment s THREE Slide PPTX with Smart Art and Hyperlink

The student will be able to creat 3 slides to showcase Amendments 1, 4, and 5 using Smart Art and Hyperlink to content in DO NOW style one day activity.

### Differentiation:

Artistic design elements

### Assessment:

Rubric

### Objective: SCRATCH - Create a Message

The student will be able to create an animated message using Scratch.

**Differentiation:**

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

**Assessment:**

Rubric

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

Students will continue researching careers of interest and pathways to the education they need.

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|------------------|---|
| WRK.9.2.8.CAP    | Career Awareness and Planning   |
| WRK.9.2.8.CAP.1  | Identify offerings such as high school and county career and technical school courses, apprenticeships, military programs, and dual enrollment courses that support career or occupational areas of interest.                     |
| WRK.9.2.8.CAP.2  | Develop a plan that includes information about career areas of interest.  |
| WRK.9.2.8.CAP.3  | Explain how career choices, educational choices, skills, economic conditions, and personal behavior affect income.  |
| WRK.9.2.8.CAP.4  | Explain how an individual's online behavior (e.g., social networking, photo exchanges, video postings) may impact opportunities for employment or advancement.  |
| WRK.9.2.8.CAP.10 | Evaluate how careers have evolved regionally, nationally, and globally.   |
| WRK.9.2.8.CAP.11 | Analyze potential career opportunities by considering different types of resources, including occupation databases, and state and national labor market statistics.   |
| WRK.9.2.8.CAP.12 | Assess personal strengths, talents, values, and interests to appropriate jobs and careers to maximize career potential.   |
| TECH.9.4.8.CI    | Creativity and Innovation   |
| TECH.9.4.8.CI.4  | Explore the role of creativity and innovation in career pathways and industries.  |
| TECH.9.4.8.CT    | Critical Thinking and Problem-solving   |
| TECH.9.4.8.CT.3  | Compare past problem-solving solutions to local, national, or global issues and analyze the factors that led to a positive or negative outcome.   |
| TECH.9.4.8.TL    | Technology Literacy   |
| TECH.9.4.8.TL.3  | Select appropriate tools to organize and present information digitally.   |
| TECH.9.4.8.TL.4  | Synthesize and publish information about a local or global issue or event (e.g., MSLS4-5, 6.1.8.CivicsPI.3).  |
|                  | Multiple solutions often exist to solve a problem.  |
|                  | There are variety of resources available to help navigate the career planning process.  |
|                  | An essential aspect of problem solving is being able to self-reflect on why possible solutions for solving problems were or were not successful.  |
|                  | Some digital tools are appropriate for gathering, organizing, analyzing, and presenting information, while other types of digital tools are appropriate for creating text, visualizations, models, and communicating with others. |

## Technology and Design Integration

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See activities above and standards below.

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| CS.6-8.8.1.8.AP.1 | Design and illustrate algorithms that solve complex problems using flowcharts and/or pseudocode.                           |
| CS.6-8.8.1.8.AP.2 | Create clearly named variables that represent different data types and perform operations on their values.                 |
| CS.6-8.8.1.8.AP.3 | Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals. |
| CS.6-8.8.1.8.AP.4 | Decompose problems and sub-problems into parts to facilitate the design, implementation, and review of programs.           |
| CS.6-8.8.1.8.AP.5 | Create procedures with parameters to organize code and make it easier to reuse.  |
| CS.6-8.8.1.8.AP.6 | Refine a solution that meets users' needs by incorporating feedback from team members and users.                           |
| CS.6-8.8.1.8.AP.7 | Design programs, incorporating existing code, media, and libraries, and give attribution.                                  |
| CS.6-8.8.1.8.AP.8 | Systematically test and refine programs using a range of test cases and users.   |
| CS.6-8.8.1.8.AP.9 | Document programs in order to make them easier to follow, test, and debug.   |
| CS.6-8.AP         | Algorithms & Programming   |

## Interdisciplinary Connections

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| 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   |

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|          | 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**

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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:**

Aimswest benchmarks 3X a year

Linkit Benchmarks 3X a year

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

Teacher made assessments to measure growth.

## **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:**

Projects

Assessments listed above

**Instructional Materials**

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Materials as needed for projects

**Standards**

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See Standards Above.