

# Unit 3: Computer Skills & Tools

Content Area: **Technology**  
Course(s): **Computer Applications 1 Gr. 7**  
Time Period: **NovDec**  
Length: **90 Sessions, Grade 7**  
Status: **Published**

## **Title Section**

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## **Department of Curriculum and Instruction**



**Belleville Public Schools**

**Curriculum Guide**

# COMPUTER APPLICATIONS 1, GRADE 7

# COMPUTER SKILLS & TOOLS

**Belleville Board of Education**

**102 Passaic Avenue**

**Belleville, NJ 07109**

**Prepared by:** TEACHER, JOSEPH DEFLORIO

Dr. Richard Tomko, Ph.D., M.J., Superintendent of Schools

Ms. LucyAnn Demikoff, Director of Curriculum and Instruction K-12

Ms. Nicole Shanklin, Director of Elementary Education

Mr. George Droste, Director of Secondary Education

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### **Unit Overview**

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Unit 3- Computer Skills & Tools (100 sessions) This unit will review the basics of computer hardware, software, desktop orientation, reinforce login and logout procedures. This unit will build on technology vocabulary. Students will investigate the many tools available in Microsoft Word in order to produce professional looking documentation.

### **Enduring Understanding**

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- Develop Keyboarding Skills
- Developing Computer Skills to Succeed Academically & Compete in the Global Economy
- Master Microsoft Word
- Understanding Computer Languages and the Code behind the scene

### **Essential Questions**

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- How can the computer be used as a tool?

- What process would you use to create a letter or newsletter in Microsoft Word?
- How can digital tools be used for creating original and innovative works, ideas, and solutions?
- How can a proficiency in Microsoft Word contribute to your academic success?

## Exit Skills

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- Develop Keyboarding Skills
- Developing Computer Skills to Succeed Academically & Compete in the Global Economy
- Understanding Computer Languages and the Code behind the scene

## New Jersey Student Learning Standards (NJSLS-S)

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TECH.8.1.8	Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.
TECH.8.1.8.A	Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.
TECH.8.1.8.A.1	Demonstrate knowledge of a real world problem using digital tools.
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.8.1.8.A.CS1	Understand and use technology systems.
TECH.8.1.8.A.CS2	Select and use applications effectively and productively.
TECH.8.1.8.D.1	Understand and model appropriate online behaviors related to cyber safety, cyber bullying, cyber security, and cyber ethics including appropriate use of social media.
TECH.8.1.8.D.CS1	Advocate and practice safe, legal, and responsible use of information and technology.
TECH.8.1.8.D.CS2	Demonstrate personal responsibility for lifelong learning.
TECH.8.1.8.D.CS3	Exhibit leadership for digital citizenship.
TECH.8.1.8.E	Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.

## Interdisciplinary Connections

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Key Ideas and Details

Craft and Structure

	Integration of Knowledge and Ideas
	Range of Reading and Level of Text Complexity
	Key Ideas and Details
	Craft and Structure
	Integration of Knowledge and Ideas
LA.W.7	Writing
	Text Types and Purposes
	Production and Distribution of Writing
LA.W.7.4	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.)
LA.W.7.6	Use technology, including the Internet, to produce and publish writing and link to and cite sources as well as to interact and collaborate with others, including linking to and citing sources.
	Research to Build and Present Knowledge
LA.W.7.8	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.
	Range of Writing
	Presentation of Knowledge and Ideas
	Knowledge of Language
LA.L.7.3	Use knowledge of language and its conventions when writing, speaking, reading, or listening.
	Vocabulary Acquisition and Use
LA.L.7.6	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.

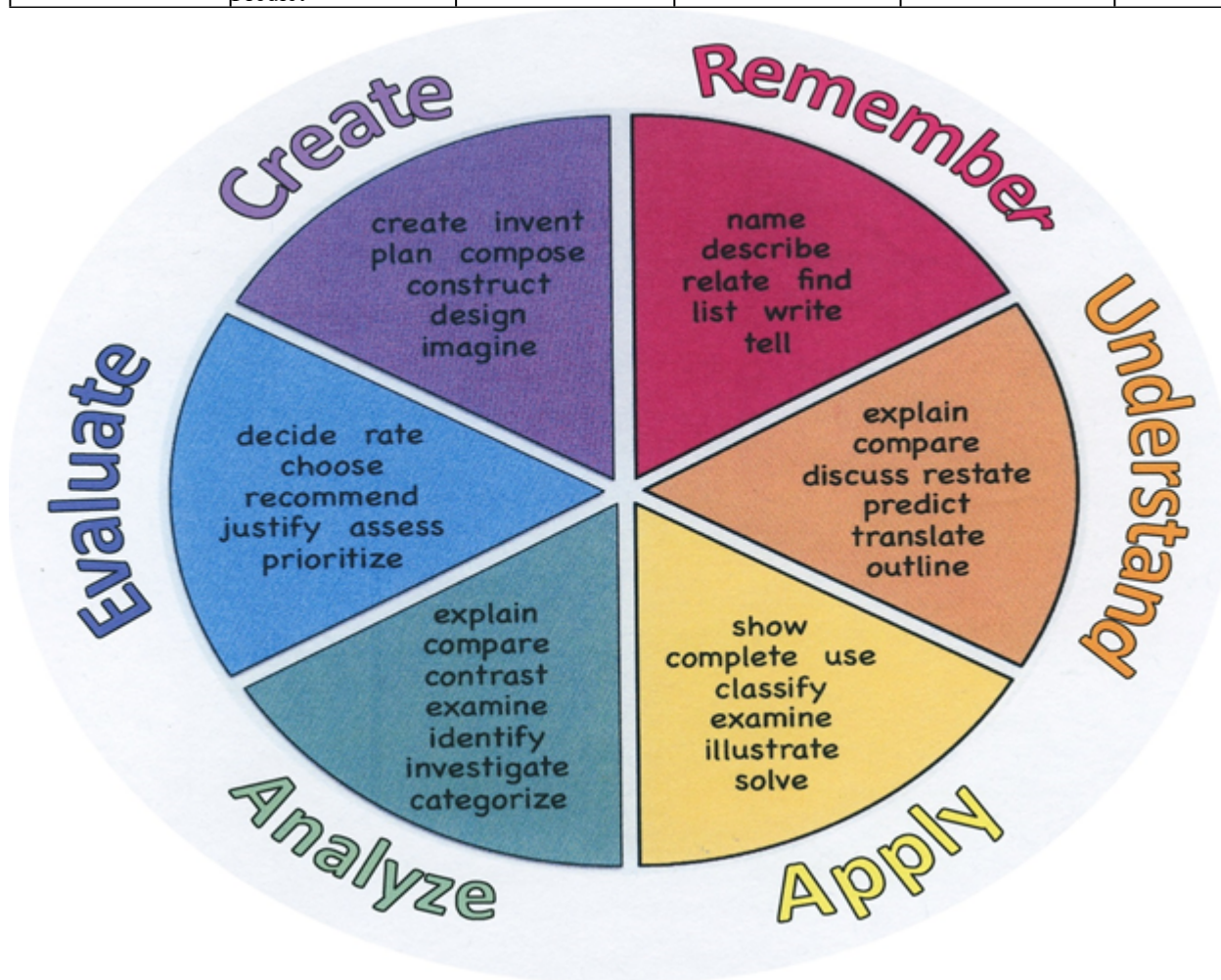
## Learning Objectives

- Students will be famalized with computer Terminology [OS; RAM; CPU; URL; HTML; HDD; SSD...]
- Students will demonstrate proper use of computer hardware
- Students will demonstrate proper use of computer software
- Students will be proficient in using Microsoft Word
- Students will demonstrate proficiency in using the OS platform and tools

**Action Verbs:** Below are examples of action verbs associated with each level of the Revised Bloom's Taxonomy.

Remember	Understand	Apply	Analyze	Evaluate	Create
Choose	Classify	Choose	Categorize	Appraise	Combine
Describe	Defend	Dramatize	Classify	Judge	Compose
Define	Demonstrate	Explain	Compare	Criticize	Construct
Label	Distinguish	Generalize	Differentiate	Defend	Design
List	Explain	Judge	Distinguish	Compare	Develop
Locate	Express	Organize	Identify	Assess	Formulate
Match	Extend	Paint	Infer	Conclude	Hypothesize
Memorize	Give Examples	Prepare	Point out	Contrast	Invent
Name	Illustrate	Produce	Select	Critique	Make

Omit	Indicate	Select	Subdivide	Determine	Originate
Recite	Interrelate	Show	Survey	Grade	Organize
Select	Interpret	Sketch	Arrange	Justify	Plan
State	Infer	Solve	Breakdown	Measure	Produce
Count	Match	Use	Combine	Rank	Role Play
Draw	Paraphrase	Add	Detect	Rate	Drive
Outline	Represent	Calculate	Diagram	Support	Devise
Point	Restate	Change	Discriminate	Test	Generate
Quote	Rewrite	Classify	Illustrate		Integrate
Recall	Select	Complete	Outline		Prescribe
Recognize	Show	Compute	Point out		Propose
Repeat	Summarize	Discover	Separate		Reconstruct
Reproduce	Tell	Divide			Revise
	Translate	Examine			Rewrite
	Associate	Graph			Transform
	Compute	Interpolate			
	Convert	Manipulate			
	Discuss	Modify			
	Estimate	Operate			
	Extrapolate	Subtract			
	Generalize				
	Predict				



## **Suggested Activities & Best Practices**

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- Turn on Computer, Place Word in Task Bar, Launch Microsoft Word
- Launch Chrome/Bookmark Site/Place in Task Bar
- Sign in to Google Classroom
- Examine Sites/Handouts
- Save Work to Nework Drive
- Log Off Computer

## **Assessment Evidence - Checking for Understanding (CFU)**

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- Turn on Computer, Place Word in Task Bar, Launch Microsoft Word-Formative Assessment
  - Launch Chrome/Bookmark Site/Place in Task Bar-Formative Assessment
  - Unit Test-Summative Assessment
  - Web Based Assessments-Alternate Assessment
  - Create A Multimedia Poster-Benchmark Assessment
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- Admit Tickets
  - Anticipation Guide
  - Compare & Contrast
  - Create a Multimedia Poster
  - Define
  - Describe
  - Evaluate
  - Evaluation rubrics
  - Exit Tickets
  - Explaining
  - Illustration
  - KWL Chart
  - Learning Center Activities
  - Multimedia Reports
  - Newspaper Headline
  - Outline
  - Question Stems
  - Quizzes
  - Red Light, Green Light
  - Self- assessments
  - Study Guide

- Teacher Observation Checklist
- Unit review/Test prep
- Unit tests
- Web-Based Assessments
- Written Reports

## **Primary Resources & Materials**

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- Chromebooks
- Google Platforms
- Windows 10 OS
- Office 365
- Microsoft Word
- Chrome Browser
- Teacher Handout
- Digitoools Textbook
- White Board
- Smart TV

## **Ancillary Resources**

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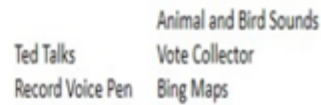
- White Board
- Smart TV
- Dell/HP Laptops - if student's Chromebook isn't operational

## **Technology Infusion**

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What **Technology Infusion** and/or strategies are integrated into this unit to enhance learning? Please list all hardware, software and strategies. Please find a technology pedagogy wheel for assistance while completing this section.

Originally taken from <http://www.coetail.com/vzimmer/files/2013/02/iPadagogy-Wheel-001.jpg>  
And adapted for Windows 8.1 devices by Charlotte Beckhurst @CharBeckhurst



Career-ready individuals understand the obligations and responsibilities of being a member of a community, and they demonstrate this understanding every day through their interactions with others. They are conscientious of the impacts of their decisions on others and the environment around them. They think about the near-term and long-term consequences of their actions and seek to act in ways that contribute to the betterment of their teams, families, community and workplace. They are reliable and consistent in going beyond the minimum expectation and in participating in activities that serve the greater good.



CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP2.1	Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation.
CRP.K-12.CRP3	Attend to personal health and financial well-being.
CRP.K-12.CRP3.1	Career-ready individuals understand the relationship between personal health, workplace performance and personal well-being; they act on that understanding to regularly practice healthy diet, exercise and mental health activities. Career-ready individuals also take regular action to contribute to their personal financial well-being, understanding that personal financial security provides the peace of mind required to contribute more fully to their own career success.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP4.1	Career-ready individuals communicate thoughts, ideas, and action plans with clarity, whether using written, verbal, and/or visual methods. They communicate in the workplace with clarity and purpose to make maximum use of their own and others' time. They are excellent writers; they master conventions, word choice, and organization, and use effective tone and presentation skills to articulate ideas. They are skilled at interacting with others; they are active listeners and speak clearly and with purpose. Career-ready individuals think about the audience for their communication and prepare accordingly to ensure the desired outcome.
CRP.K-12.CRP5	Consider the environmental, social and economic impacts of decisions.
CRP.K-12.CRP5.1	Career-ready individuals understand the interrelated nature of their actions and regularly make decisions that positively impact and/or mitigate negative impact on other people, organization, and the environment. They are aware of and utilize new technologies, understandings, procedures, materials, and regulations affecting the nature of their work as it relates to the impact on the social condition, the environment and the profitability of the organization.
CRP.K-12.CRP6	Demonstrate creativity and innovation.
CRP.K-12.CRP6.1	Career-ready individuals regularly think of ideas that solve problems in new and different ways, and they contribute those ideas in a useful and productive manner to improve their organization. They can consider unconventional ideas and suggestions as solutions to issues, tasks or problems, and they discern which ideas and suggestions will add greatest value. They seek new methods, practices, and ideas from a variety of sources and seek to apply those ideas to their own workplace. They take action on their ideas and understand how to bring innovation to an organization.
CRP.K-12.CRP7	Employ valid and reliable research strategies.
CRP.K-12.CRP7.1	Career-ready individuals are discerning in accepting and using new information to make decisions, change practices or inform strategies. They use reliable research process to search for new information. They evaluate the validity of sources when considering the use and adoption of external information or practices in their workplace situation.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP8.1	Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.
CRP.K-12.CRP9	Model integrity, ethical leadership and effective management.
CRP.K-12.CRP9.1	Career-ready individuals consistently act in ways that align personal and community-held

ideals and principles while employing strategies to positively influence others in the workplace. They have a clear understanding of integrity and act on this understanding in every decision. They use a variety of means to positively impact the directions and actions of a team or organization, and they apply insights into human behavior to change others' action, attitudes and/or beliefs. They recognize the near-term and long-term effects that management's actions and attitudes can have on productivity, morals and organizational culture.

CRP.K-12.CRP10

Plan education and career paths aligned to personal goals.

CRP.K-12.CRP10.1

Career-ready individuals take personal ownership of their own education and career goals, and they regularly act on a plan to attain these goals. They understand their own career interests, preferences, goals, and requirements. They have perspective regarding the pathways available to them and the time, effort, experience and other requirements to pursue each, including a path of entrepreneurship. They recognize the value of each step in the education and experiential process, and they recognize that nearly all career paths require ongoing education and experience. They seek counselors, mentors, and other experts to assist in the planning and execution of career and personal goals.

CRP.K-12.CRP11

Use technology to enhance productivity.

CRP.K-12.CRP11.1

Career-ready individuals find and maximize the productive value of existing and new technology to accomplish workplace tasks and solve workplace problems. They are flexible and adaptive in acquiring new technology. They are proficient with ubiquitous technology applications. They understand the inherent risks-personal and organizational-of technology applications, and they take actions to prevent or mitigate these risks.

CRP.K-12.CRP12

Work productively in teams while using cultural global competence.

CRP.K-12.CRP12.1

Career-ready individuals positively contribute to every team, whether formal or informal. They apply an awareness of cultural difference to avoid barriers to productive and positive interaction. They find ways to increase the engagement and contribution of all team members. They plan and facilitate effective team meetings.

## **21st Century Skills/Interdisciplinary Themes**

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- Communication and Collaboration
- Creativity and Innovation
- Critical thinking and Problem Solving
- ICT (Information, Communications and Technology) Literacy
- Information Literacy
- Life and Career Skills
- Media Literacy

## **21st Century Skills**

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- Civic Literacy
- Environmental Literacy
- Financial, Economic, Business and Entrepreneurial Literacy
- Global Awareness
- Health Literacy

## **Differentiation**

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The basis of good differentiation in a lesson lies in differentiating by content, process, and/or product.

### **Resources:**

- <https://www.nj.gov/education/archive/techno/grants/include/differentiation.htm>
- Students will have the same subject matter but will have modified expectations
- Guided instruction, direct instruction, & group instruction
- Assist students with IEP & 504 guidelines
- Study guides, group & peer instruction, extended time / test time / oral testing

### **Differentiations:**

- Small group instruction
- Small group assignments
- Extra time to complete assignments
- Pairing oral instruction with visuals
- Repeat directions
- Use manipulatives
- Center-based instruction
- Token economy
- Study guides
- Teacher reads assessments allowed
- Scheduled breaks
- Rephrase written directions
- Multisensory approaches
- Additional time
- Preview vocabulary
- Preview content & concepts
- Story guides
- Behavior management plan
- Highlight text
- Student(s) work with assigned partner
- Visual presentation
- Assistive technology
- Auditory presentations
- Large print edition
- Dictation to scribe
- Small group setting

### **Hi-Prep Differentiations:**

- Alternative formative and summative assessments
- Choice boards
- Games and tournaments
- Group investigations
- Guided Reading
- Independent research and projects

- Interest groups
- Learning contracts
- Leveled rubrics
- Literature circles
- Multiple intelligence options
- Multiple texts
- Personal agendas
- Project-based learning
- Problem-based learning
- Stations/centers
- Think-Tac-Toes
- Tiered activities/assignments
- Tiered products
- Varying organizers for instructions

#### **Lo-Prep Differentiations**

- Choice of books or activities
- Cubing activities
- Exploration by interest
- Flexible grouping
- Goal setting with students
- Jigsaw
- Mini workshops to re-teach or extend skills
- Open-ended activities
- Think-Pair-Share
- Reading buddies
- Varied journal prompts
- Varied supplemental materials

### **Special Education Learning (IEP's & 504's)**

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- Additional time for skill mastery
- Preview of content, concepts and vocabulary
- Behavior management plan
- Students repeat directions to check for understanding
- Assistive technology
- Check work frequently for understanding
- Secur attention before giving instruction/directions
- Multi-sensory presentation
- Preferential seating
- Modified assignments
- Data/study guides provided

- printed copy of board work/notes provided
- additional time for skill mastery
- assistive technology
- behavior management plan
- Center-Based Instruction
- check work frequently for understanding
- computer or electronic device utilizes
- extended time on tests/ quizzes
- have student repeat directions to check for understanding
- highlighted text visual presentation
- modified assignment format
- modified test content
- modified test format
- modified test length
- multi-sensory presentation
- multiple test sessions
- preferential seating
- preview of content, concepts, and vocabulary
- Provide modifications as dictated in the student's IEP/504 plan
- reduced/shortened reading assignments
- Reduced/shortened written assignments
- secure attention before giving instruction/directions
- shortened assignments
- student working with an assigned partner
- teacher initiated weekly assignment sheet
- Use open book, study guides, test prototypes

## **English Language Learning (ELL)**

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- Multimedia videos, illustrations, pictures to explain or clarify
- Teacher provides data / study guides
- Allow students to correct errors
- Allow students to retake test/quizzes with ELL teacher support

- teaching key aspects of a topic. Eliminate nonessential information
- using videos, illustrations, pictures, and drawings to explain or clarify
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning;
- allowing students to correct errors (looking for understanding)
- allowing the use of note cards or open-book during testing
- decreasing the amount of work presented or required
- having peers take notes or providing a copy of the teacher's notes
- modifying tests to reflect selected objectives
- providing study guides
- reducing or omitting lengthy outside reading assignments
- reducing the number of answer choices on a multiple choice test
- tutoring by peers
- using computer word processing spell check and grammar check features
- using true/false, matching, or fill in the blank tests in lieu of essay tests

## **At Risk**

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- Modify assignment
- Provide one-on-one instruction
- Tutoring by peers
- Provide data/study guides - Handout
- Provide SITES [google classroom with data/study guides]
- Re-take test or quizzes
- Extend deadlines
- Offer morning and after school support

- allowing students to correct errors (looking for understanding)
- teaching key aspects of a topic. Eliminate nonessential information
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning
- allowing students to select from given choices
- allowing the use of note cards or open-book during testing
- collaborating (general education teacher and specialist) to modify vocabulary, omit or modify items to reflect objectives for the student, eliminate sections of the test, and determine how the grade will be determined prior to giving the test.
- decreasing the amount of work presented or required
- having peers take notes or providing a copy of the teacher's notes
- marking students' correct and acceptable work, not the mistakes

- modifying tests to reflect selected objectives
- providing study guides
- reducing or omitting lengthy outside reading assignments
- reducing the number of answer choices on a multiple choice test
- tutoring by peers
- using authentic assessments with real-life problem-solving
- using true/false, matching, or fill in the blank tests in lieu of essay tests
- using videos, illustrations, pictures, and drawings to explain or clarify

## **Talented and Gifted Learning (T&G)**

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- Teacher-selected instructional strategies that are focused to provide advanced challenges, engagement and growth opportunities.
  - Support peer instruction to other students
  - Provide SITES [google classroom with data/study guides]
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- Above grade level placement option for qualified students
  - Advanced problem-solving
  - Allow students to work at a faster pace
  - Cluster grouping
  - Complete activities aligned with above grade level text using Benchmark results
  - Create a blog or social media page about their unit
  - Create a plan to solve an issue presented in the class or in a text
  - Debate issues with research to support arguments
  - Flexible skill grouping within a class or across grade level for rigor
  - Higher order, critical & creative thinking skills, and discovery
  - Multi-disciplinary unit and/or project
  - Teacher-selected instructional strategies that are focused to provide challenge, engagement, and growth opportunities
  - Utilize exploratory connections to higher-grade concepts
  - Utilize project-based learning for greater depth of knowledge

## **Sample Lesson**

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Sample lesson in Unit1

