# **Unit 1: Introduction to Coding & Solar Design**

Content Area: **T&G** 

Course(s): Talented & Gifted 7, Talented & Gifted 8

Time Period: SeptOctNov
Length: 8 weeks (16 days)

Status: Published

#### **Title Section**

# **Department of Curriculum and Instruction**



**Belleville Public Schools** 

**Curriculum Guide** 

# Talented & Gifted Program Grades 7 & 8

Introduction to Coding and Solar Design

**Belleville Board of Education** 

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Board Approved: September 21, 2020

### **Unit Overview**

#### **PHILOSOPHY**

The philosophy of the Talented & Gifted Program for Belleville Public Schools is to recognize the unique talents and capabilities of all students. Students who demonstrate exceptional abilities require a challenging and a differentiated curriculum. We recognize that students learn in different ways and posses different experiences and levels of understanding. Students deserve an educational environment that is challenging, stimulating, individualized, and learner driven. The curriculum has been designed to maximize students' creative, cultural, and cognitive needs. The cornerstone belief of the Talented & Gifted program is that children learn best when they are actively engaged in the quest for knowledge.

#### **PURPOSE**

The purpose of the Belleville School District Talented & Gifted Program:

- Provides students with learning experiences to increase their cognitive and affective abilities through frequent applications of creative thinking, problem solving, critical thinking, exploration, discovery, and experimentation.
- This program will provide educational opportunities and activities to every student in his/her personal learning style, to include visual-spatial, musical, naturalist, bodily kinesthetic, interpersonal, intrapersonal, linguistic, verb-linguistic, and logical-mathematical.
- Students will be encouraged to develop and apply higher level thinking processes to become producers of information, as well as consumers of information.

- The program will enhance each student's level of understanding concepts, ideas, and issues in the areas of knowledge, comprehension, application, analysis, synthesis, and evaluation.
- The intellectual architecture of this unit will be fueled by teacher designed lessons that build upon identified students' strengths, interests, and talents.
- The program is designed to be student driven in which the teacher acts as a facilitator, guide, or resource for personal or small group inquiries and investigations.
- The three characteristics used for identifying students are above average ability, task commitment, and creativity.
- Provide a three-part model of learning activities which would include Tier One as whole group instruction in the classroom setting during the school day, Tier Two as small group instruction and planned activities in the classroom setting during the school day involving cross-curricular involvement, and Tier Three as an after school enrichment program for students in grades three through five who meet the established criteria.
- The students are identified based on unique talents, abilities, and interests to form a talent pool.

At the 7th & 8th grade levels, enrichment is intended for all students. It will be available to encourage students, and give them additional opportunities to achieve their highest potential. A pull out program in grades seven and eight has been designed for those students who demonstrate exceptional ability, talent, and potential. Students chosen to participate in this program will be required to meet established acceptance criteria.

#### TALENTED & GIFTED PULL OUT PROGRAM GOALS

- 1. Provide a differentiated curriculum for students who demonstrate exceptional cabilities and potential.
- 2. Identify and support each student's personal style to promote academic, social, and emotional growth for potential success.
- 3. Provide opportunities for students to pursue long-term investigations of personal interests.
- 4. Provide activities that promote growth and stimulation in higher cognitive processes such interpretation, analysis, application, synthesis, and evaluation.
- 5. To engage students in rich academic experiences coupled with high expectations, which will afford them opportunities to make meaningful connections between their learning and the larger world.
- 6. Develop an understanding of their own talents and interests in order to select and pace learning experiences necessary to become more self-directed learners.

#### TALENTED & GIFTED PROGRAM OBJECTIVES

- 1. The student will participate in learning activities in which one or more of the following strategies for differentiated instruction will be employed: interest groups, independent projects, learning centers, and tiered assignments.
- 2. The students will be exposed to a personal interest survey to help them focus their questions for personal or small group inquiry and investigation in grades seven and eight.
- 3. The students will participate in analysis and synthesis of information facilitated by, but not limited to, real world problem solving, mentorship, product creation, presentation, and self-evaluation.
- 4. Students will select topics of personal interest that they will research, engage in problem solving, and create solutions that are tied to real world application.
- 5. The students will use technological resources to facilitate their investigations.

#### **GUIDELINES FOR INSTRUCTIONAL ACTIVITIES**

Activities will include but not be limited to:

- 1. Personal interest inventories, and investigations pursuing those interests.
- 2. Inquiry of questions related to or arising from regular classroom studies or those proposed by the instructor.
- 3. Exploratory activities.
- 4. Student opportunities to engage in new endeavors involving questioning and investigation to secure new knowledge.
- 5. Those that encourage students to question, make inferences, and find evidence to support generalizations.

#### UNIT ONE: INTRODUCTION TO CODING OVERVIEW

Unit One of the T&G Enrichment Curriculum will focus on an introduction to coding and solar sprint design. Through the use of microprocessor microbit, students are tasks to complete guided projects in basic prototyping and design. Students will become more familiarized with key terminology in the creation and programing of basic computer engineering projects. Students will provide examples of Computer Science in the real world. They will also provide an overview of common problem-solving strategies.

## **Enduring Understanding**

#### **Enduring Understanding:**

- Computer science is the science that deals with the theory and methods of processing information in digital computers, the design of computer hardware and software and their uses for processing information.
- Computer scientist use languages such as Drop & Drag Java Script to program microprocessors.
- Computer scientist utilize the process of the design loop to design, record, build, test, and evaluate.
- Modeling, testing, evaluating, and modifying are used to transform ideas into practical solutions.
- Some technological problems are best solves through experimentation.
- Test and evaluate the design in relation to pre-established requirements, such as criteria and constraints, and refine as needed.

## **Essential Questions**

#### **Unit Essential Questions:**

- What is computer science?
- Why study computer science?
- Why use Drop & Drag Java Script?
- How does the Scientific Method apply to solar design?
- What is a design loop and how does it apply to the design of solar vehicles?

## **Exit Skills**

By the end of Unit 1: Introduction to Coding & Solar Design, students will have exposure to & complete: (5 out of the 10 - Coding Experiments)

• Code: Blinking an LED

Code: Reading a Potentiometer
Code: Reading a Photoresistor
Code: Driving an RGB LED

• Code: Reading an SPDT Switch

• Code: Readin a Button Press

• Code: Reading the Temperature Sensor

Code: Using a Servo MotorCode: Using a Buzzer

• Code: Using the Accelerometer

• Solar Design: Understand the function of a chassis, motor and battery pack and how these parts work together to make a car that moves and drives.

• Solar Design: Create a team, team name and theme for their solar sprint car

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

line diagram.

| MA.7.RP.A    | Analyze proportional relationships and use them to solve real-world and mathematical problems.   |
|--------------|--|
| MA.7.RP.A.2  | Recognize and represent proportional relationships between quantities.   |
| MA.7.RP.A.2a | Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin. |
| MA.7.NS.A    | Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.   |
| MA.8.EE.B    | Understand the connections between proportional relationships, lines, and linear equations.  |
| MA.8.EE.B.5  | Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.  |
| MA.7.NS.A.1  | Apply and extend previous understandings of addition and subtraction to add and subtract   |

rational numbers; represent addition and subtraction on a horizontal or vertical number

| MA.7.NS.A.1d     | Apply properties of operations as strategies to add and subtract rational numbers.   |
|------------------|--|
| MA.7.NS.A.2      | Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.  |
| MA.7.NS.A.2c     | Apply properties of operations as strategies to multiply and divide rational numbers.  |
| MA.7.NS.A.3      | Solve real-world and mathematical problems involving the four operations with rational numbers.  |
| MA.8.F.A         | Define, evaluate, and compare functions.   |
| MA.7.EE.B        | Solve real-life and mathematical problems using numerical and algebraic expressions and equations.   |
| MA.7.G.A         | Draw, construct, and describe geometrical figures and describe the relationships between them.   |
| MA.7.G.A.1       | Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.  |
| MA.7.G.B         | Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.   |
| 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.CS2 | Select and use applications effectively and productively.  |
| TECH.8.1.8.B.CS1 | Apply existing knowledge to generate new ideas, products, or processes.  |
| TECH.8.1.8.E     | Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.   |
| TECH.8.1.8.E.CS3 | Evaluate and select information sources and digital tools based on the appropriateness for specific tasks.   |
| TECH.8.1.8.F     | Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. |

## **Interdisciplinary Connections**

The T&G Curriculum areas of divergent thinking, convergent thinking, visual/spatial perceptions, interpretive thinking, and problem solving are integrated with Language Arts, Math, Science, and other content areas.

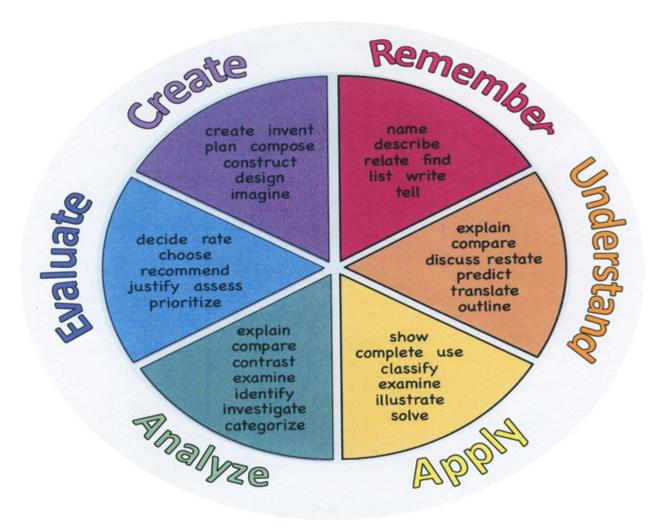
# **Learning Objectives**

In this unit, students will be able to:

- utilize a microprocessor microbit, complete guided projects in basic prototyping and design
- familiarized with key terminology in the creation of programming of basic computer engineering projects
- assemble the basic components of a solar vehicle

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**

Integrated project-based learning experiments to be used with microbits and the Solar Sprint Journal are to be utilized in this unit.

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

Project Completion (Summative)

Teacher Observation Checklist (Formative)

Multi media Reports (Alternative)

Portfolio (Summative)

Socratic Questioning (Formative)

Lab Journal (Alternative)

Do Now & Exit Ticket (Formative)

- Admit Tickets
- Anticipation Guide
- Common Benchmarks
- Compare & Contrast
- Create a Multimedia Poster
- DBQ's
- Define
- Describe
- Evaluate
- Evaluation rubrics
- Exit Tickets
- Explaining
- Fist- to-Five or Thumb-Ometer
- Illustration
- Journals
- KWL Chart
- Learning Center Activities
- Multimedia Reports
- Newspaper Headline
- Outline
- Question Stems
- Quickwrite

- QuizzesRed Light
- Red Light, Green Light
- Self- assessments
- Socratic Seminar
- Study Guide
- Surveys
- Teacher Observation Checklist
- Think, Pair, Share
- Think, Write, Pair, Share
- Top 10 List
- Unit review/Test prep
- Unit tests
- Web-Based Assessments
- Written Reports

## **Primary Resources & Materials**

https://www.transoptions.org/jss-materials-andresources

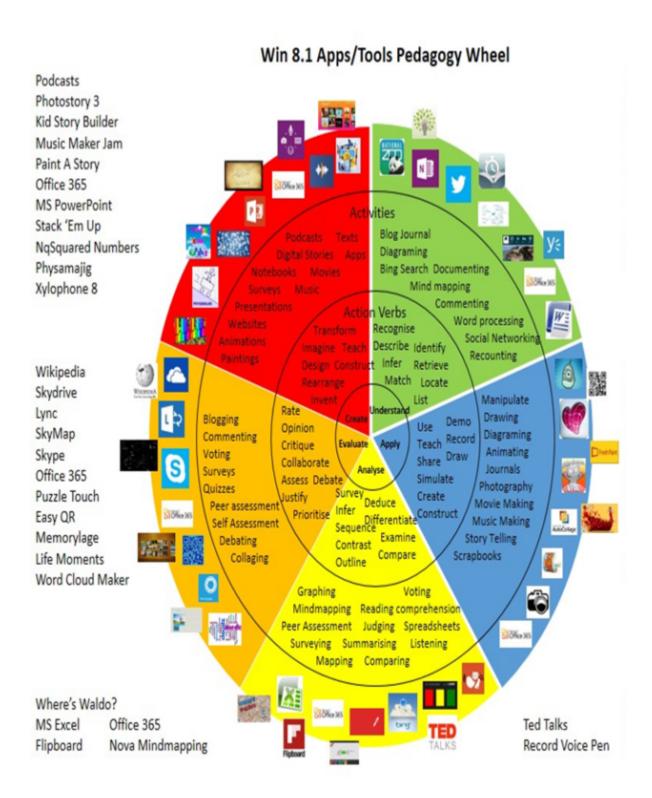
# **Ancillary Resources**

Cochran, Dana. Solar Vehicles- Teacher's Guide. Pitsco, Inc, 2018.

# **Technology Infusion**

- Designing STEM
- Google Classroom
- JamBoards
- 3D Printer
- CAD (Computer Assisted Drafting)
- Structures 2.0 software

- Flight and Space 2.0 software
- Ted Talks
- Youtube



## Alignment to 21st Century Skills & Technology

- English Language Arts;
- Mathematics:
- Science and Scientific Inquiry (Next Generation);
- Social Studies, including American History, World History, Geography, Government and Civics, and Economics;
- Technology;

| 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.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.

Consider the environmental, social and economic impacts of decisions. CRP.K-12.CRP5

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.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.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.   |
| CAEP.9.2.8.B.3   | Evaluate communication, collaboration, and leadership skills that can be developed through school, home, work, and extracurricular activities for use in a career.   |
| CAEP.9.2.8.B.4   | Evaluate how traditional and nontraditional careers have evolved regionally, nationally, and globally.   |
| CAEP.9.2.8.B.7   | Evaluate the impact of online activities and social media on employer decisions.   |
| TECH.8.1.8.A.1   | Demonstrate knowledge of a real world problem using digital tools.   |
| TECH.8.1.8.A.5   | Create a database query, sort and create a report and describe the process, and explain the report results.  |
| TECH.8.1.8.A.CS1 | Understand and use technology systems.   |
| TECH.8.1.8.C.CS1 | Interact, collaborate, and publish with peers, experts, or others by employing a variety of digital environments and media.  |
| TECH.8.1.8.C.CS2 | Communicate information and ideas to multiple audiences using a variety of media and formats.  |
| TECH.8.1.8.D.3   | Demonstrate an understanding of fair use and Creative Commons to intellectual property.  |
| TECH.8.1.8.D.4   | Assess the credibility and accuracy of digital content.  |

# 21st Century Skills/Interdisciplinary Themes

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

Information LiteracyLife and Career SkillsMedia Literacy

## 21st Century Skills

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

## **Differentiation**

**Small Group Instruction** 

Study Guides

Project Based Learning

#### Differentiations:

- Small group instruction
- Small group assignments
- Extra time to complete assignments
- Pairing oral instruction with visuals
- Repeat directions
- Use manipulatives
- Center-based instruction
- Teacher reads assessments allowed
- Scheduled breaks

- Rephrase written directions
- Multisensory approaches
- Additional time
- Preview vocabulary
- Preview content & concepts
- Behavior management plan
- Highlight text
- Student(s) work with assigned partner
- Visual presentation
- Assistive technology
- Auditory presentations
- Small group setting

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

- Games and tournaments
- Group investigations
- Guided Reading
- Independent research and projects
- Interest groups
- Multiple intelligence options
- Project-based learning
- Problem-based learning
- Stations/centers

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

- Choice of books or 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
- Varied supplemental materials

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

IEP and 504

#### Powerpoints posted on google classroom

- 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)**

Extend time requirements, preferred seating, positive reinforcement, check often for understanding/review, oral/visual directions/prompts when necessary, supplemental materials including use of online bilingual dictionary, and modified assessment

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

allowing students to correct errors (looking for understanding)

Check often 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 workpresented 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)**

Provide enrichment articles and assignments

Allow students to complete independent study assignments

- 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**

Unit Name: Introduction to Coding NJSLS: see link Interdisciplinary Connection: Language Arts Statement of Objective: SWBAT: establish a baseline of knowledge and utilize a microbit to turn a light on and off Anticipatory Set/Do Now: What is computer science? What jobs are in this field? What is coding? Learning Activity: See attached document for step by step directions Student Assessment/CFU's: Small group setting Flexible Seating Think/Pair/Share Multi-sensory approach Materials: See attached 21st Century Themes and Skills: • Communication and Collaboration • Information Literacy • Creativity and Innovation • Critical Thinking and Problem Solving Differentiation/Modifications: Extended time **Rephrasing Directions** Integration of Technology: Microbits Chromebooks