Unit 2: 2nd Grade T&G

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Title Section

Department of Curriculum and Instruction

Belleville Public Schools

Curriculum Guide

Unit 2: T&G Curriculum

Second Grade

Belleville Board of Education

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Unit Overview

PHILOSOPHY

The philosophy of the Talented & Gifted Program for Belleville Public Schools is to recognize the unique talents and cababilities of all students. Students who demonstrate exceptional abilities require a challenging and a differentiated curriculum. We recognize that students learn in different ways and possess 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, culutural, and cognitive needs. The cornerstone belief of the Talented and 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 experiences to increase their cognitive and affective abilities through frequent applications of creative thinking, problem solving, critical thinking, exploration, discovery, and experimentation.
- Provide a three-part model of learning activities:
  Tier 1: Whole Group Instruction in the classroom setting during a typical school day involving cross curricular involvement. (K-5)
  Tier 2: To further enhance the talents and abilities of students via the use of small group instruction in guided reading and math groupings.
- The three characteristics used for identifying students are above average ability, task commitment, and creativity.
- Discover, encourage, and 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.
- To develop and encourage students to apply higher level thinking processes to become producers of information as well as consumers of information.
- The program will enhance student's level of understanding concepts, ideas, and issues in the areas of knowledge, comprehension, application, analysis, synthesis, and evaluation.
- Intellectual architecture fueled by teacher designed lessons that build upon identified students' strengths, interests, and talents.
- This program is designed to be student driven, in which the teacher acts as an 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.
  Students are identified based on unique talents, abilities, and interests to form a talent pool.

At the K-2 levels, enrichment is intended for all students. It will be availible to encourage students and give them additional opportunities to achieve their highest potential.

The activities in this unit reflect ELA, math, science and technology endeavors which support differentiated instruction that addresses grade level needs as well as high capability needs.

New Jersey Student Learning Standards (NJSLS)

CCSS.ELA-Literacy.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.
CCSS.ELA-Literacy.RI.2.3	Describe the connection between a series of historical events, scientific ideas or concepts,

	or steps in technical procedures in a text.
CCSS.ELA-Literacy.RF.2.4.b	Read grade-level text orally with accuracy, appropriate rate, and expression on successive readings.
CCSS.ELA-Literacy.W.2.7	Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations).
CCSS.ELA-Literacy.W.2.8	Recall information from experiences or gather information from provided sources to answer a question.
CCSS.ELA-Literacy.SL.2.3	Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.

Exit Skills

By the end of Unit 2, students should be able to:

- Sequence the order of events.
- Use clues from the story, pictures and prior knowledge to make inferences.
- Use the organization trait and conventions to write explanatory pieces.
- Know from memory all sums of two one digit numbers.
- Understand that numbers can be decomposed into simpler terms.
- Use the inverse relationship between addition and subtraction.
- Understand that solutions can be found by forming equivalent but easier or known sums.
- The properties of operations to add and subtract.
- The values of the digits in a three digit number.
- How to mentally add and subtraction 10 or 100 to a given number (100-900).
- How to explain why addition and subtraction strategies work, using place value and the properties of operations.

Enduring Understanding

- Concrete models, drawings, strategies based on place vale, properties of operations, and/or the relationship between addition and subtraction can help one solve problems.
- The order or events affects the outcome.
- By using a combination of textual and experiential clues, they are able to draw conclusions, make inferences and generate questions.
- Different things are needed to help living organisms grow.

Essential Questions

- Why is order necessary in life?
- Why is it important to communicate clearly to others?
- What is needed to help plans and animals grow and develop?
- How can we express ourselves clearly to others?

- How can a problem be simplified?

Learning Objectives

In this unit, students will be able to:

- assemble a house out of sticks that can withstand 'the big bad wolf' (fan or hairdryer).
- create and design a habitat that will be approrpiate for the assigned beanie baby animal.

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.

SCI.K-2.5.3.2.C.b	A habitat supports the growth of many different plants and animals by meeting their basic needs of food, water, and shelter.

Alignment to 21st Century Skills & Technology

Key SUBJECTS AND 21st CENTURY THEMES

Mastery of key subjects and 21st century themes is essential for all students in the 21stcentury.

Key subjects include:

- English, reading or language arts
- Arts
- Mathematics
- Science

21st Century/Interdisciplinary Themes

- Financial, Economic, Business and Entrepreneurial Literacy
- Health Literacy

21st Century Skills

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

Technology Infusion

- SMARTboard
- Computers
- iPads/Tablets
- Powerpoint presentations
- Videos
- MS Office 365



Differentiation

Special Education

- printed copy of board work/notes provided
- additional time for skill mastery
- assistive technology
- Center-Based Instruction
- check work frequently for understanding
- computer or electronic device utilizes
- have student repeat directions to check for understanding
- highlighted text visual presentation
- modified assignment format
- modified test length
- multi-sensory presentation
- preferential seating
- preview of content, concepts, and vocabulary
- reduced/shortened reading assignments
- Reduced/shortened written assignments
- secure attention before giving instruction/directions
- student working with an assigned partner
- teacher initiated weekly assignment sheet

ELL

- teaching key aspects of a topic. Eliminate nonessential information
- using videos, illustrations, pictures, and drawings to explain or clarif
- 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)
- decreasing the amount of workpresented or required
- having peers take notes or providing a copy of the teacher's notes
- reducing or omitting lengthy outside reading assignments
- tutoring by peers
- using computer word processing spell check and grammar check features

Intervention Strategies

- 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
- 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
- providing study guides
- reducing or omitting lengthy outside reading assignments
- tutoring by peers
- using videos, illustrations, pictures, and drawings to explain or clarify

Evidence of Student Learning-CFU's

- Compare & Contrast
- Define
- Describe
- Evaluate
- Evaluation rubrics
- Exit Tickets
- Explaining
- Fist- to-Five or Thumb-Ometer
- Illustration
- Journals
- KWL Chart
- Outline
- Question Stems
- Red Light, Green Light
- Teacher Observation Checklist
- Think, Pair, Share
- Think, Write, Pair, Share

Primary Resources

- Envision Mathematics
- Scott Foresman Series
- Reading A-Z
- Decodable readers
- Being A Writer
- Leveled Readers

- Running Record (DRA)
- Salider Resources
- Recipes for Reading (Orton Gillingham)

Ancillary Resources

www.discoveryeducation.com

www.readinga-z.com

www.watchknowlearn.com

www.mobymax.com

www.readtheory.org

www.starfall.com

www.brainpopjr.com

Sample Lesson

1. **Three Little Pigs STEM** http://www.busylibrarian.com/2012/01/stem-unit.html
2. **Beanie Baby Habitat** (2-3 week activity) (PPT)