Kindergarten Science Course Compendium

UNITS OF STUDY*

Unit 1- Basic Needs of Living and Human Things

Unit 2- Pushes and Pulls

Unit 3- Weather

Unit 4- Effects of the Sun

INTERDISCIPLINARY CONNECTIONS

ELA Standards:

- RI.K.1. With prompting and support, ask and answer questions about key details in a text.
- RI.K.2. With prompting and support, identify the main topic and retell key details of a text.
- RI.K.3. With prompting and support, describe the connection between two individuals, events, ideas, or pieces of information in a text
- W.K.1 Use a combination of drawing, dictating, and writing to compose opinion pieces in which they tell a reader the topic or the name of the book they are writing about, state an opinion or preference about the topic or book. (K-ESS2-2)
- W.K.1 Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic. (K-ESS2-2)
- W.K.2 Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). (K-LS1-1)
- W.K.7 Add drawings or other visual displays to descriptions as desired to provide additional detail. (K-ESS3-1)
- W.K.6.With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers. (K-2-ETS1-1)
- W.K.8. Recall information from experiences or gather information from provided sources to answer a question. (K-2-ETS1-1)
- SL.K.5 With prompting and support, ask and answer questions about key details in a text. (K-ESS2-2) R.K.1

Math Standards

- K.MD.A.2 Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. (K-LS1-1)
- MP.2 Reason abstractly and quantitatively. (K-ESS3-1) MP.2
- MP.4 Model with mathematics. (K-ESS3-1) MP.4
- MP.5. Use appropriate tools strategically. (K-2-ETS1-1)
- K.CC. Counting and Cardinality (K-ESS3-2)
- K.CC.A. Know number names and the count sequence. (K-ESS2-1)
- K.MD.A.1. Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. (K-ESS2-1)

^{*}See individual units for Pacing Guide, NJSLS Standards, Transfer Skills, Enduring Understandings, Essential Questions, Learning Objectives, Key Vocabulary, Skills, Resources, & Assessments

- K.MD.B.3. Classify objects into given categories; count the number of objects in each category and sort the categories by count. (K-ESS2-1)
- 2. MD. D.10. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph. (K-2-ETS1-1)
- K.CC Counting and Cardinality (K-ESS3-1) K.CC

21st Century Life and Careers

- **CRP2**. Apply appropriate academic and technical skills.
- **CRP4**. Communicate clearly and effectively and with reason.
- **CRP6.** Demonstrate creativity and innovation.
- **CRP11**. Use technology to enhance productivity.
- 9.2.4.A.3 Investigate both traditional and nontraditional careers and relate information to personal likes and dislikes.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.

Technology

- **8.2.2.B.4** Identify how the ways people live and work has changed because of technology.
- **8.2.2.C.1** Brainstorm ideas on how to solve a problem or build a product.

GENERAL CONSIDERATIONS FOR DIVERSE LEARNERS		
English Language Learners	Students Receiving Special Education Services	Advanced Learners
 WIDA Can Do Descriptors for Kindergarten* WIDA Essential Actions Handbook FABRIC Paradigm Wall Township ESL Grading Protocol *Use WIDA Can Do Descriptors in coordination with Student Language Portraits (SLPs). Potential Accommodations for ELLs Personal glossary Text-to-speech Extended time Simplified / verbal instructions Frequent breaks Small group/One to one 	 New Jersey Tiered System of Supports National Center on Universal Design for Learning - About UDL UDL Checklist UDL Key Terms Students within this class receiving Special Education/Section 504 programming have specific goals and objectives, as well as accommodations and modifications outlined within their Individualized Education Plans (IEP)/504 Plans due to an identified disability and/or diagnosis. In addition to exposure to the general education curriculum, instruction is differentiated based upon the student's needs. The IEP/504 Plan acts as a supplemental curriculum guide inclusive of instructional strategies that support each specific learner. Potential Accommodations for Special Education 	 Knowledge and Skill Standards in Gifted Education for All Teachers Pre-K-Grade 12 Gifted Programming Standards Gifted Programming Glossary of Terms Potential Accommodations for Advanced Learners Use of high level academic vocabulary/texts Problem-based learning Pre-assess to condense curriculum Interest-based research Authentic problem-solving Homogeneous grouping opportunities

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- Additional time
- · Review of directions
- Student restates information
- Extra visual and verbal cues and prompts
- Preferential seating
- Verbal and visual cues regarding directions and staying on task
- Checklists
- Immediate feedback

Presentation accommodations:

- Listen to audio recordings instead of reading text
- Pre-teach unknown vocabulary through pictures or videos, and relate to prior knowledge
- Work with fewer items per page and/or materials in a larger print size
- Use a visual blocker
- Use visual presentations of verbal material, such as word webs and visual organizers
- Be given a written list of instructions/picture cues

Response accommodations:

- Give responses in a form (oral or written) that's easier for him/her
- Dictate answers to a scribe
- Capture responses on an audio recorder
- Use a spelling dictionary or electronic spell-checker
- Use a word processor to give responses in class
- Use a calculator or table of "math facts"

Setting accommodations:

- Work or take a test in a different setting, such as a quiet room with few distractions
- Sit where he/she learns best (for example, near the teacher)
- Take a test in small group setting

Timing accommodations:

- Take more time to complete a task or a test
- Have extra time to process oral information and directions
- Take frequent breaks, such as after completing a task

Assignment modifications:

- Complete fewer or different homework problems than peers
- Shorten assignment
- Answer fewer or different test questions
- Create alternate projects or assignments

Students with 504 Plans

Teachers are responsible for implementing designated services and strategies identified on a student's 504 Plan.

At Risk Learners / Differentiation Strategies

Alternative Assessments
Choice Boards
Games and Tournaments
Group Investigations
Guided Reading
Learning Contracts
Leveled Rubrics
Literature Circles
Multiple Texts
Personal Agendas

Independent Research & Projects
Multiple Intelligence Options
Project-Based Learning
Varied Supplemental Activities
Varied Journal Prompts or RAFT Writing
Tiered Activities/Assignments
Tiered Products
Graphic Organizers
Choice of Books/Activities
Mini-Workshops to Reteach or Extend
Think-Pair-Share by readiness or interest
Use of Collaboration of Various Activities

Jigsaw
Think-Tac-Toe
Cubing Activities
Exploration by Interest
Flexible Grouping
Goal-Setting with Students
Homework Options
Open-Ended Activities
Use of Reading Buddies
Varied Product Choices
Stations/Centers
Work Alone/Together