Course of Study:

1st-Grade Technology

1st-Grade Course of Study — Technology

Strand: Information and Communications Technology (Chromebook intro., word processing, Coding-digital & physical)

<table>
<tr><td>Learning Standard:
Topic 1.a: Develop basic skills for using digital learning tools and resources to accomplish a defined task.
Topic 3.b: Use visuals found in digital learning tools and resources to clarify and add to knowledge.
Topic 3.d: With guidance, create artifacts using digital learning tools and resources to demonstrate knowledge.
Topic 4.a: With guidance, discuss and identify communication needs considering the task, situation and information to be shared.</td><td>How Taught? Modeling, Chromebook login, Taking Care of Your Chromebook, code.org course B: Code Login, Teach Me Typing, Hour of Code intro., Programming with Events,</td></tr>
<tr><td rowspan="2">Materials: Chromebooks, Google Documents, age appropriate websites to reinforce skills.
.</td><td>How Assessed? Discussion, observation, completion of tasks.</td></tr>
<tr><td>How Re-Taught? Repetition, reinforcement through weekly application.</td></tr>
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Strand: Society and Technology (Internet Safety)
Topic 1: Demonstrate an understanding of technology's impact on the advancement of humanity – economically, environmentally and ethically

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<tr><td>Learning Standard: Topic 1.a: Demonstrate appropriate and identify inappropriate uses of technology required to be a responsible user.
Topic 1.b Identify positive and negative impacts one's use of technology can have on oneself and one's family.
Topic 1.c: Explain that systems have parts or components that work together to accomplish a goal.
Topic 2.b: Identify positive and negative ways of collaborating in digital and physical
Topic 1.
Topic 3.b: Identify examples of how technology innovations / inventions can have multiple applications.
Topic 3.d Define and discuss digital identity and digital footprints.
Topic 3.e Provide examples of how rules for respecting others' belongings apply to digital content and information.</td><td>How Taught? Into the Cloud , Digital Footprint video, loops, STEM - creating tools</td></tr>
<tr><td rowspan="2">Materials: Netsmartz videos & curriculum, STEM materials</td><td>How Assessed? Discussion, observation, completion of tasks.</td></tr>
<tr><td>How Re-Taught? Repetition, reinforcement.</td></tr>
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Strand: Design and Technology (STEM activities)

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<td>Learning Standard:
Topic 1.b: Describe technology as something someone made to meet a want or need.
such as tools and materials are things that help people get a job done
Topic 1.d: Give examples of how resources such as tools and materials are things that help people get a job done.
Topic 2.b: Demonstrate the ability to follow a simple design process: identify a problem
Topic 2.a: Observe and describe details of an object’s design.
Topic 2.c: Explain that a design process is a plan to find solutions to problems.
Topic 2.d: Demonstrate that there are many possible solutions to a design problem.
Topic 2.e: Communicate design plans and solutions using drawings and descriptive language.
Topic 3.a: Describe how different technologies are used in various fields.</td>
<td>How Taught? Introduction to design through STEM activities, What is STEM?
Electrical circuits, Magtronix , Forces, Basic engineering, What Can I Be STEM careers from A to Z, Shapes,</td>
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<td rowspan="2">Materials: STEM materials, Magtronix starter & expansion kits.</td>
<td>How Assessed? Testing products to see if they meet objectives.</td>
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<td>How Re-Taught? Redefine prototypes with teacher guidance</td>
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