

**NATURE, CONCEPTS AND SYSTEMS
(SYSTEMS THINKING, INTERACTIONS, AND DESIGN)**

K-2

Indicator 1: Students understand the history and progression of technology in relation to the development and design of future technology.

Kindergarten	First Grade	Second Grade
K.NC.1.1 Identify three human-made objects. (Knowledge)	1.NC.1.1 Distinguish between the natural and human-made world. (Analysis)	2.NC.1.1 Describe the progression of technology. (Comprehension)
	1.NC.1.2) Describe how people use tools. (Comprehension)	

Indicator 2: Students analyze the parts of a technological system in terms of input, process, output, and feedback.

Kindergarten	First Grade	Second Grade
K.NC.2.1 Identify that parts make a whole. (Knowledge)	1.NC.2.1 Identify common systems in school and home. (Knowledge)	2.NC.2.1) Define each component in a systems-thinking model. (Comprehension)

Indicator 3: Students analyze the relationships and the connections between technologies in different fields of study and how they apply to communities.

Kindergarten	First Grade	Second Grade
K.NC.3.1 Identify technologies used in the home. (Knowledge)	1.NC.3.1 Illustrate technologies used at school. (Comprehension)	2.NC.3.1 Classify whether technologies are used in the home, school, or community. (Analysis)

Indicator 4: Students understand the purpose and demonstrate the use of the design process in problem solving.

Kindergarten	First Grade	Second Grade
✓ Identify a problem.	1.NC.4.1 Use a simplified version of the design process to solve problems. (Application)	2.NC.4.1 Choose among given alternatives to solve a problem. (Application)
✓ Gather information to solve a problem.	✓ Identify possible alternative solutions to problems.	
✓ Identify a solution.		