GRADE 3– Unit 2 Circuits

Mission Statement
The primary goal of the Swedesboro-Woolwich School District is to prepare each student with the real life skills needed to compete in a highly competitive global economy. This will be achieved by providing a comprehensive curriculum, the integration of technology, and the professional services of a competent and dedicated faculty, administration, and support staff. Guiding this mission will be Federal mandates, including No Child Left Behind, the New Jersey Core Curriculum Content Standards, and local initiatives addressing the individual needs of our students as determined by the Board of Education. The diverse resources of the school district, which includes a caring PTO and active adult community, contribute to a quality school system. They serve an integral role in supporting positive learning experiences that motivate, challenge and inspire children to learn.

Unit/Module Overview
In unit 2, students will learn to: ● While practicing a growth mindset and the design process, the student will create a working circuit.

Standards Covered in Current Unit/Module
Related Standards and Learning Goals
CS.3-5.8.2.5.ED.3 - Follow step by step directions to assemble a product or solve a problem, using appropriate tools to accomplish the task. **CS.3-5.8.2.5.ED.2 -** Collaborate with peers to collect information, brainstorm to solve a problem, and evaluate all possible solutions to provide the best results with supporting sketches or models.

Unit/Module Weekly Learning Activities and Pacing Guide			
Topic & # Days	**NJ Standards**	**Critical Knowledge & Skills**	**Possible Resources & Activities**
Introduction to Circuits (1)	• **CS.3-5.8.2.5.ED.3**	**Obj. We are learning to**: • identify, illustrate and explain the components of a basic circuit. **Suggested Formative Assessment(s)**: • Building a Basic Circuit.pdf	• Activity ○ Building a basic circuit (teamwork activity) • Video ○ Introduction to Simple Circuits • Materials ○ Copper Circuit (1).pdf ○ LED light bulb mini ○ Copper tape ○ Watch battery
Circuit Project Introduction (1)	• **CS.3-5.8.2.5.ED.2**	**Obj. We are learning to**: • draft a prototype / schematic of basic math practice circuit quiz board. **Suggested Formative Assessment(s)**: • Times Table Practice.pdf	• Activity ○ Introduction to Circuit Project utilizing the design process (Times Tables Practice Board) ○ Create Prototype • Materials ○ Times table practice sheet ○ Ruler ○ Hole puncher ○ Pencil ○ Finished project example
Creation of Math Practice Circuit (6)	• **CS.3-5.8.2.5.ED.3**	**Obj. We are learning to**: • utilize a prototype and a set of instructions to create and assemble a math practice quiz board with correct mathematical problems. **Suggested Summative Assessment(s)**: • Scale Tracking Sheet Gr 3 Unit 2	• Activity ○ Design Process Circuit Activity ○ Build and test your math practice board following the design process ○ Circuit board design process description

		• Circuit Rubric
		• Circuit Board Description
			• Materials
			  ○ Cardstock
			  ○ Ruler
			  ○ Sharpies
			  ○ Foil sheets
			  ○ Circuit testers
			  ○ Crayons
			  ○ Hole puncher
			  ○ Finished project example

Link to Additional Components including Cross Curricular Connections, Accommodations, Assessments, Etc

ELA Enduring Understanding Statements