Swedesboro-Woolwich School District's STEAM Curriculum Guidance Document

GRADE 3 – Unit 3 - Data Collection and Research

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 3, students will learn to: ● collect and organize data on plant growth and specific vegetables or fruits.

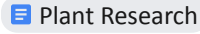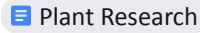| Standards Covered in Current Unit/Module |
|---|
| Related Standards and Learning Goals |
| ● **CS.3-5.8.1.5.DA.1 -** Collect, organize, and display data in order to highlight relationships or support a claim.

● **CS.3-5.8.1.5.DA.3 -** Organize and present collected data visually to communicate insights gained from different views of the data. |

Unit/Module Weekly Learning Activities and Pacing Guide			
Topic & # Days	**NJ Standards**	**Critical Knowledge & Skills**	**Possible Resources & Activities**
Introduction to spreadsheets (1)	● **CS.3-5.8.1.5.DA.1**	**Obj. We are learning to**: ● create a basic spreadsheet. (select all, navigate, size, format and enter data in a spreadsheet.) **Suggested Formative Assessment(s)**: ● Completed practice spreadsheet	● Activity ○ Spreadsheets Introduction ● Materials ○ http://sheets.google.com
Spreadsheet practice (1)	● **CS.3-5.8.1.5.DA.1**	**Obj. We are learning to**: ● create a basic spreadsheet. (add borders, shade, and add graphics in a spreadsheet.) **Suggested Formative Assessment(s)**: ● Completed practice spreadsheet	● Activity ○ Continue Spreadsheets Introduction ● Materials ○ http://sheets.google.com
Spreadsheet practice (1)	● **CS.3-5.8.1.5.DA.1**	**Obj. We are learning to**: ● create a basic spreadsheet. (create a graph from data in a spreadsheet and explain the results.) **Suggested Formative Assessment(s)**: ● ⊞ Sheets Quiz	● Activity ○ Complete Introduction, take assessment ● Materials ○ http://sheets.google.com
Plants and measurement (1)	● **CS.3-5.8.1.5.DA.1**	**Obj. We are learning to**: ● create a basic spreadsheet that can be used to collect data. (Data collected for planted seeds for 4 weeks) ● Plant a seed for a fruit/vegetable **Suggested Formative Assessment(s)**: ● ⊞ Plant Growth Example	● Activity ○ Plant Growth Tracking Activity ■ Setup Tracking Spreadsheet ■ Plant seeds ● Materials ○ http://sheets.google.com ○ Cups ○ Seeds ○ Potting soil ○ Sharpie ○ Watering can

Plant Research (1)	● **CS.3-5.8.1.5.DA.1**
	● **CS.3-5.8.1.5.DA.3**
		Obj. We are learning to:
		● identify and gather information about a selected plant
		● collect data on the growth of their planted seed.
		Suggested Formative Assessment(s):
		● 📄 Plant Research
			● Activity
			  ○ Measure plant growth and input information into previously created spreadsheet.
			  ○ Basic research on a plant (type/variety)
			● Websites
			  ○ https://www.kiddle.co/
			  ○ https://www.factmonster.com/
			  ○ https://kids.britannica.com/

Introduction to slideshows (1)	● **CS.3-5.8.1.5.DA.3**	**Obj. We are learning to**:
		● create a basic slideshow including slides, text, clip art transitions, effects and collect data about the growth of my planted seed.
		Suggested Formative Assessment(s):
		● Practice Slideshow
			● Activity
			  ○ Measure plant growth and input information into previously created spreadsheet.
			  ○ Introduction to slideshows
			● Materials
			  ○ https://docs.google.com/presentation/u/0/

Creation of integrated Slideshow (3)	● **CS.3-5.8.1.5.DA.3**	**Obj. We are learning to**:
		● utilize collected information to create a slideshow
		Suggested Summative Assessment(s):
		● Completed Slideshow on plant research and plant growth data
			● Activity
			  ○ Plant Slideshow Project
			  ○ Measure plant growth and input information into previously created spreadsheet.
			  ○ Introduction to slideshows
			● Materials
			  ○ https://docs.google.com/presentation/u/0/
			  ○ 📄 Plant Research

Analysis of data (1)	● **CS.3-5.8.1.5.DA.3**	**Obj. We are learning to**:
		● draw a conclusion from collected data.
		Suggested Formative Assessment(s):
		● Integration of data analysis into plant slideshow
			● Activity
			  ○ Data Analysis of plant growth data
			  ○ Measure plant growth and input information into previously created spreadsheet.
			● Materials
			  ○ https://docs.google.com/presentation/u/0/
			  ○ 📄 Plant Research

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

ELA Enduring Understanding Statements