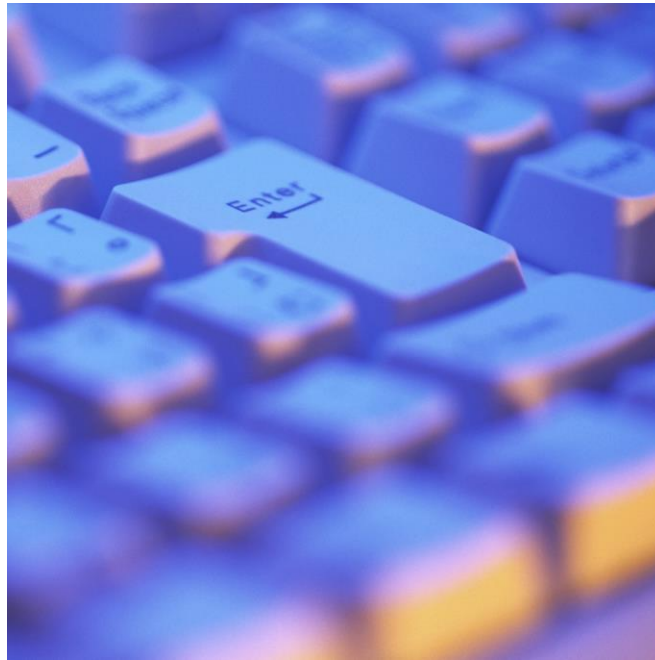


Plainfield Public Schools  
*Educational Services*

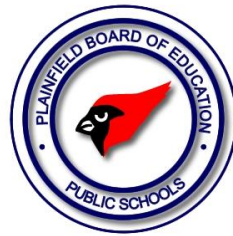
# *Curriculum Pacing Guide*



*Technology*  
*Fifth Grade*  
*2016-2017*

Plainfield Public Schools  
Educational Services  
Curriculum Pacing Guide

## The Board of Education for Plainfield Public Schools



Plainfield Public Schools  
Educational Services  
Curriculum Pacing Guide

## FIFTH GRADE CURRICULUM PACING OVERVIEW

This document provides a pacing guide for instruction involving fifth grade students. It includes the content addressed in the fifth grade New Jersey Core Curriculum Content Standards (NJCCCS). It is designed to help teachers in pacing instruction of what students are expected to know and be able to use in technology for the entire year.

### **Purpose of the Fifth Grade Technology Curriculum Pacing Guide**

The Fifth Grade **Technology Curriculum Pacing Guide** was formulated for the purpose of providing fifth grade teachers with a guide for pacing instruction throughout the year. It will serve as a “road map” to help teachers develop fifth grade concepts and processes through instruction and practice. The Division of Educational Services responded to the request of administrators and teachers in the District to create a guide that would serve as a resource for teachers.

### **Description of the Fifth Grade Technology Curriculum Pacing Guide**

The Fifth Grade Technology Curriculum Pacing Guide specifies the New Jersey Core Curriculum Content Standards (NJCCCS) Cumulative Progress Indicators (CPIs), Objectives, and Standards/Strands taught during each instructional quarter.

- Column One: Standard/Strands  
Identifies the Standard and Strands as required by the NJCCCS.
- Column Two: Objectives  
Identifies the specific, measurable objectives to be addressed in lessons.
- Column Three: CPIs  
Contains the NJCCCS CPIs for fifth grade.

## **Suggestions for Implementing the Fifth Grade Technology Curriculum Pacing Guide**

The role of the teacher is to:

- teach the NJCCCS content matter;
- provide classroom activities that address the NJCCCS;
- enhance curriculum by using textbooks, manipulatives, technology, and other instructional materials;
- use varying methods of instruction to address diverse learning styles; and
- administer teacher-made assessments

In addition to using the **Fifth Grade Technology Curriculum Pacing Guide**, teachers should:

- consider intra-school collaborative planning and spiraling of the curriculum to ensure efficient and effective pacing and delivery of instruction;
- adjust pacing and discuss progress with peers;
- document questions and suggested improvement of the guide for further support and future revisions; and
- align and connect mathematics literature to support reading.

# FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

## Grade 5: First Quarter

Standard/Strands	Objectives	Strand Letter/CPI
<p><b>8.1 (COMPUTER AND INFORMATION LITERACY)</b> ALL STUDENTS WILL USE COMPUTER APPLICATIONS TO GATHER AND ORGANIZE INFORMATION AND TO SOLVE PROBLEMS.</p> <p style="text-align: center;"><b>Strand(s)</b></p> <p>A. Basic Computer Skills and Tools B. Application and Productivity Tools</p>	<p>The fifth grade student will be able to:</p> <ul style="list-style-type: none"> <li>• use and apply appropriate computer vocabulary</li> <li>• use keyboard and other common input and output devices efficiently and effectively</li> <li>• list the rules for proper care of computer and other peripherals</li> <li>• identify the different functions of a keyboard (enter, space bar, control, alt, delete, backspace, Esc, arrows, shift, and caps lock)</li> <li>• operate a mouse (click and drag, click and hold, highlight, scroll wheel)</li> <li>• print, save, retrieve, and delete files</li> <li>• create a folder to save files</li> <li>• produce and edit simple documents and presentations</li> <li>• demonstrate proper sequence for turning on and turning off computers and other peripherals</li> <li>• exhibit proper posture and use both hands on the keyboard</li> <li>• identify, discuss, and visually represent uses of technology in the community</li> <li>• identify the influence and effects of technology on everyday life and learning</li> <li>• understand and follow classroom rules for technology use</li> <li>• follow acceptable use policy as set by the school district</li> <li>• practice safe internet usage</li> <li>• recognize, exhibit social, legal, and ethical behaviors when using information and technology and understand consequences of misuse</li> </ul>	<p>8.1.8.A.1 Use appropriate technology vocabulary.</p> <p>8.1.8.A.2 Use common features of an operating system (e.g., creating and organizing files and folders).</p> <p>8.1.8.A.3 Demonstrate effective input of text and data using touch keyboarding with proper technique</p> <p>8.1.8.A.4 Input and access data and text efficiently and accurately through proficient use of other input devices, such as a mouse.</p> <p>8.1.8.A.5 Create documents with advanced text formatting and graphics using word processing.</p> <p>8.1.8.A.8 Design and produce a basic multimedia project.</p> <p>8.1.8.A.12 Create, organize and manipulate shortcuts.</p> <p>8.1.8.B.1 Demonstrate an understanding of how changes in technology impact the workplace and society.</p> <p>8.1.8.B.2 Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse.</p> <p>8.1.8.B.3 Explain the purpose of an acceptable use policy and the consequences of inappropriate use of technology.</p> <p>8.1.8.B.4 Describe and practice safe internet usage.</p>

## FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

Standard/Strands	Objectives	Strand Letter/CPI
<p><b>8.2 (TECHNOLOGY EDUCATION)</b>            ALL STUDENTS WILL DEVELOP AN UNDERSTANDING OF THE NATURE AND IMPACT OF TECHNOLOGY, ENGINEERING, TECHNOLOGICAL DESIGN, AND THE DESIGNED WORLD AS THEY RELATE TO THE INDIVIDUAL, SOCIETY, AND THE ENVIRONMENT.</p> <hr/> <p style="text-align: center;"><b>Strand(s)</b></p> <p><b>A.</b> Nature and Impact of Technology  <b>B.</b> Design Process and Impact Assessment  <b>C.</b> Systems in the Designed World</p>	<p>The fifth grade student will be able to:            N/A</p>	

# FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

## Grade 5: Second Quarter

Standard/Strands	Objectives	Strand Letter/CPI
<p><b>8.1 (COMPUTER AND INFORMATION LITERACY)</b> ALL STUDENTS WILL USE COMPUTER APPLICATIONS TO GATHER AND ORGANIZE INFORMATION AND TO SOLVE PROBLEMS.</p> <p style="text-align: center;"><b>Strand(s)</b></p> <p><b>A.</b> Basic Computer Skills and Tools <b>B.</b> Application and Productivity Tools</p>	<p><b>The fifth grade student will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>use and apply appropriate computer vocabulary</b></li> <li>• <b>use the correct hand and body position while applying the proper touch method of keying for the homerow keys, row above, and row below</b></li> <li>• <b>type words consisting of the homerow keys, the row below, and the row above using the proper touch keying technique for the development of speed</b></li> <li>• <b>produce grade-appropriate documents</b></li> <li>• <b>identify and discuss the benefits of networked and non-networked computers</b></li> <li>• <b>recognize, discuss, and use network terms/concepts such as stand-alone, network, network resources, etc</b></li> <li>• <b>expand the use of various operating system features (open more than one application/program, menus, taskbar)</b></li> <li>• <b>recognize telecommunication as a way share information electronically</b></li> <li>• <b>list ways technology makes life easier</b></li> <li>• <b>compare and contrast the advantages and disadvantages of the use of technology</b></li> <li>• <b>practice safe use of electronic equipment (digital camera, video camera, microphone)</b></li> <li>• <b>discuss copyright laws</b></li> <li>• <b>explain how pop-up windows happen and how to respond to them</b></li> <li>• <b>discuss the purpose of virus protection software</b></li> <li>• <b>follow acceptable use policy as set by the school district</b></li> <li>• <b>practice safe internet usage</b></li> </ul>	<p>8.1.8.A.1 Use appropriate technology vocabulary. 8.1.8.A.2 Use common features of an operating system (e.g., creating and organizing files and folders). 8.1.8.A.3 Demonstrate effective input of text and data using touch keyboarding with proper technique 8.1.8.A.4 Input and access data and text efficiently and accurately through proficient use of other input devices, such as a mouse. 8.1.8.A.5 Create documents with advanced text formatting and graphics using word processing. 8.1.8.A.8 Design and produce a basic multimedia project. 8.1.8.A.12 Create, organize and manipulate shortcuts. 8.1.8.B.2 Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse. 8.1.8.B.3 Explain the purpose of an acceptable use policy and the consequences of inappropriate use of technology. 8.1.8.B.4 Describe and practice safe internet usage.</p>
<p><b>8.2 (TECHNOLOGY EDUCATION)</b></p>	<p><b>The fifth grade student will be able to:</b></p>	<p>8.2.8.A.1 Describe the nature</p>

## FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

Standard/Strands	Objectives	Strand Letter/CPI
<p>ALL STUDENTS WILL DEVELOP AN UNDERSTANDING OF THE NATURE AND IMPACT OF TECHNOLOGY, ENGINEERING, TECHNOLOGICAL DESIGN, AND THE DESIGNED WORLD AS THEY RELATE TO THE INDIVIDUAL, SOCIETY, AND THE ENVIRONMENT.</p> <p style="text-align: center;"><b>Strand(s)</b></p> <p><b>A.</b> Nature and Impact of Technology  <b>B.</b> Design Process and Impact Assessment  <b>C.</b> Systems in the Designed World</p>	<ul style="list-style-type: none"> <li>• <b>demonstrate an understanding of current and future technology impact of society</b></li> <li>• <b>discuss the effects of the dramatic increases of knowledge and information available today due to technology</b></li> </ul>	<p>of technology and the consequences of technological activity.</p> <p>8.2.8.A.5 Explain the cultural and societal effects resulting from the dramatic increases of knowledge and information available today.</p>



# FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

## Grade 5: Third Quarter

Standard/Strands	Objectives	Strand Letter/CPI
<p><b>8.1 (COMPUTER AND INFORMATION LITERACY)</b> ALL STUDENTS WILL USE COMPUTER APPLICATIONS TO GATHER AND ORGANIZE INFORMATION AND TO SOLVE PROBLEMS.</p> <p style="text-align: center;"><b>Strand(s)</b></p> <p><b>A.</b> Basic Computer Skills and Tools <b>B.</b> Application and Productivity Tools</p>	<p><b>The fifth grade student will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>use and apply appropriate computer vocabulary</b></li> <li>• <b>create and produce a grade appropriate multimedia presentation/project</b></li> <li>• <b>produce grade-appropriate documents</b></li> <li>• <b>practice safe use of electronic equipment (digital camera, video camera, microphone)</b></li> <li>• <b>identify and discuss the benefits of networked and non-networked computers</b></li> <li>• <b>recognize, discuss, and use network terms/concepts such as stand-alone, network, network resources, etc</b></li> <li>• <b>explore technology related careers</b></li> <li>• <b>identify the various people involved in technological developments</b></li> <li>• <b>demonstrate an understanding of current and future technology impact on society</b></li> <li>• <b>use the internet to access information</b></li> <li>• <b>follow acceptable use policy as set by the school district</b></li> <li>• <b>practice safe internet usage</b></li> <li>• <b>use the internet to access information</b></li> <li>• <b>use different search engines to obtain information</b></li> <li>• <b>distinguish between accurate and inaccurate media sources</b></li> <li>• <b>obey the copyright law and accurately record information source</b></li> </ul>	<p>8.1.8.A.1 Use appropriate technology vocabulary. 8.1.8.A.2 Use common features of an operating system (e.g., creating and organizing files and folders). 8.1.8.A.3 Demonstrate effective input of text and data using touch keyboarding with proper technique 8.1.8.A.4 Input and access data and text efficiently and accurately through proficient use of other input devices, such as a mouse. 8.1.8.A.5 Create documents with advanced text formatting and graphics using word processing. 8.1.8.A.8 Design and produce a basic multimedia project. 8.1.8.A.12 Create, organize and manipulate shortcuts. 8.1.8.B.1 Demonstrate an understanding of how changes in technology impact the workplace and society. 8.1.8.B.2 Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse. 8.1.8.B.3 Explain the purpose of an acceptable use policy and the consequences of inappropriate use of technology. 8.1.8.B.4 Describe and practice</p>

## FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

Standard/Strands	Objectives	Strand Letter/CPI
		safe internet usage. 8.1.8.B.7 Evaluate the accuracy, relevance, and appropriateness of print and non-print electronic information sources.
<b>8.2 (TECHNOLOGY EDUCATION)</b> ALL STUDENTS WILL DEVELOP AN UNDERSTANDING OF THE NATURE AND IMPACT OF TECHNOLOGY, ENGINEERING, TECHNOLOGICAL DESIGN, AND THE DESIGNED WORLD AS THEY RELATE TO THE INDIVIDUAL, SOCIETY, AND THE ENVIRONMENT.	<b>The fifth grade student will be able to:</b> <ul style="list-style-type: none"> <li>• <b>demonstrate an understanding of current and future technology impact of society</b></li> <li>• <b>discuss the effects of the dramatic increases of knowledge and information available today due to technology</b></li> </ul>	8.2.8.A.1 Describe the nature of technology and the consequences of technological activity. 8.2.8.A.5 Explain the cultural and societal effects resulting from the dramatic increases of knowledge and information available today.
<b>Strand(s)</b> <b>A.</b> Nature and Impact of Technology <b>B.</b> Design Process and Impact Assessment <b>C.</b> Systems in the Designed World		

### Grade 5: Fourth Quarter

Standard/Strands	Objectives	Strand Letter/CPI
<b>8.1 (COMPUTER AND INFORMATION LITERACY)</b> ALL STUDENTS WILL USE COMPUTER APPLICATIONS TO GATHER AND ORGANIZE INFORMATION AND TO SOLVE PROBLEMS.	<b>The fifth grade student will be able to:</b> <ul style="list-style-type: none"> <li>• <b>use and apply appropriate computer vocabulary</b></li> <li>• <b>use the correct hand and body position while applying the proper touch method of keying for the homerow keys, row above, and row below</b></li> <li>• <b>type words consisting of the homerow keys, the row below, and the row above using the proper touch keying technique for the development of speed</b></li> <li>• <b>exhibit proper posture and fingering techniques for the alphanumeric keyboard</b></li> <li>• <b>review and expand proper touch keying techniques for all rows of the keyboard</b></li> <li>• <b>produce grade-appropriate documents</b></li> </ul>	8.1.8.A.1 Use appropriate technology vocabulary. 8.1.8.A.2 Use common features of an operating system (e.g., creating and organizing files and folders). 8.1.8.A.3 Demonstrate effective input of text and data using touch keyboarding with proper technique 8.1.8.A.4 Input and access data and text efficiently and accurately through proficient use of other input devices, such as a mouse. 8.1.8.A.5 Create documents with advanced text formatting and graphics using word
<b>Strand(s)</b> <b>A.</b> Basic Computer Skills and Tools <b>B.</b> Application and Productivity Tools		

## FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

Standard/Strands	Objectives	Strand Letter/CPI
	<ul style="list-style-type: none"> <li>• produce and interpret graphs and charts by entering data on a spreadsheet</li> <li>• identify hardware problems and suggest solutions to solve them</li> <li>• follow acceptable use policy as set by the school district</li> <li>• practice safe internet usage</li> <li>• use the internet to access information</li> <li>• use different search engines to obtain information</li> <li>• distinguish between accurate and inaccurate media sources</li> <li>• practice safe use of electronic equipment (digital camera, video camera, microphone)</li> <li>• identify the various people involved in technological developments</li> <li>• explore technology related careers</li> </ul>	<p>processing.</p> <p>8.1.8.A.8 Design and produce a basic multimedia project.</p> <p>8.1.8.A.12 Create, organize and manipulate shortcuts.</p> <p>8.1.8.B.1 Demonstrate an understanding of how changes in technology impact the workplace and society.</p> <p>8.1.8.B.2 Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse.</p> <p>8.1.8.B.3 Explain the purpose of an acceptable use policy and the consequences of inappropriate use of technology.</p> <p>8.1.8.B.4 Describe and practice safe internet usage.</p> <p>8.1.8.B.7 Evaluate the accuracy, relevance, and appropriateness of print and non-print electronic information sources.</p> <p>8.1.8.B.9 Identify basic hardware problems and demonstrate the ability to solve common problems.</p>
<p><b>8.2 (TECHNOLOGY EDUCATION)</b> ALL STUDENTS WILL DEVELOP AN UNDERSTANDING OF THE NATURE AND IMPACT OF TECHNOLOGY, ENGINEERING, TECHNOLOGICAL DESIGN, AND THE DESIGNED WORLD AS THEY RELATE TO THE INDIVIDUAL, SOCIETY, AND THE ENVIRONMENT.</p>	<p><b>The fifth grade student will be able to:</b></p> <ul style="list-style-type: none"> <li>• demonstrate an understanding of current and future technology impact of society</li> <li>• discuss the effects of the dramatic increases of knowledge and information available today due to technology</li> </ul>	<p>8.2.8.A.1 Describe the nature of technology and the consequences of technological activity.</p> <p>8.2.8.A.5 Explain the cultural and societal effects resulting from the dramatic increases of knowledge and information available today.</p>
<p style="text-align: center;"><b>Strand(s)</b></p> <p><b>A.</b> Nature and Impact of Technology <b>B.</b> Design Process and Impact Assessment</p>		

## FIFTH GRADE TECHNOLOGY CURRICULUM PACING GUIDE

<b>Standard/Strands</b>	<b>Objectives</b>	<b>Strand Letter/CPI</b>
C. Systems in the Designed World		