

	Grade 5 Computers					
	Unit 2: Animation					
	(4 weeks)					
Targeted S						
8.1.P.A.3	Use digital devices to create stories with pictures, numbers, latters and words					
8.1.2.B.1	Use digital devices to create stories with pictures, numbers, letters and words. Illustrate and communicate original ideas and stories using multiple digital tools and resources					
8.2.2.E.3	Create algorithms (a sets of instructions) using a pre-defined set of commands (e.g., to move a student or a character through a					
maze).	Create algorithms (a sets of instructions) using a pre-defined set of commands (e.g., to move a student of a character through a					
8.2.5.E.3	Using a simple, visual programming language, create a program using loops, events and procedures to generate specific output.					
	Rationale and Transfer Goals : This unit creates opportunities for students to engage in creative computing. It supports the development of personal connections to creativity,					
•	on, and interests. At its core, this unit promotes computational thinking—drawing upon computational concepts, practices, and es across academic disciplines.					
Enduring l	Understandings: What are the most essential conclusions that students should be guided towards throughout this unit?					
Digital too	Digital tools provide opportunities for people to have new experiences, recognize problems, design solutions, and express their ideas.					
	Questions: What are the questions that will guide critical thinking about the content of this unit? Essential questions should, in part, be tarters toward the enduring understandings.					
How can d	ligital tools be used for creating original and innovative works, ideas, and solutions?					

Instructional Actions

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Content/Objectives



Content	Skills	Activities/Strategies	Evidence (Assessments)
What students will know	What students will be able to do	How we teach content and skills	How we know students have learned
Computational Concepts	Identify a series of steps for a	Introduction to creative	Formative assessment of student
Sequence	task.	computing.	work.
Loops		-modeling and demonstration of	
Parallelism	Evaluate products and make	sample projects and program	Final project
Events	decisions based upon conditions.	elements	
Conditionals			
Operators	Create an animation product that	Exploration of the arts and	
Data	includes discussed elements of	creating projects.	
	computational design.	-model samples of completed	
Computational Practices		projects	
Being iterative and incremental		-discussion of design elements	
		-collaborative work on designs	
Testing and debugging			
		Planning storytelling narrative	
Reusing and remixing		including characters, scenes, and	
		narratives.	
Abstracting and modularizing		-identify and define related	
		concepts	
Computational Perspectives		-collaboration of story planning.	
Expressing			
Connecting			
2			
Questioning			
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Content or Skill for this Unit	to ensure that students retain mastery of Spiral Focus from Previous Unit	Instructional Activity
Basic computer operation skills	Introduction to computers	GCF lessons
Using Scratch	Using a checklist as a guide for planning/editing	Student application and practice
Planning and evaluation of digital project		Teacher modeling of computer applications
	<u>/ Skills</u> that are a part of this unit, and whe collaborative thinking skills. Additionally, th	
Students will develop creative thinking and c technology literacy skills.	ollaborative thinking skills. Additionally, th	nis unit continues to develop student media and
Students will develop creative thinking and c technology literacy skills. <u>Key resources:</u> What are the resources that	ollaborative thinking skills. Additionally, th	nis unit continues to develop student media and
Students will develop creative thinking and c technology literacy skills. <u>Key resources:</u> What are the resources that Computers with Speakers	ollaborative thinking skills. Additionally, th	nis unit continues to develop student media and
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