General Management Tips:

1. Hands-free signal for students to get assistance.

When students raise their hands, they can no longer use the computer. Use two colored paper tents or paper cups (red/green). Have students place green over red if they are doing well and red over green if they need help.

2. Use hands-free signal to get students attention.

Require hands to be off of the computer when wanting students to pay attention to the teacher. We had students do a computer "stretch" with hands clasped behind their neck. Other options include wiggling fingers or waving hands to signal that they are paying attention.

3. Use student-experts.

Some students will have more experience at computers. Use these students (or train some) to be able to help other students with simpler technical issues.

4. Turn off monitors or close laptops during demonstrations and directions.

To help students know when to attend to the teacher, direct them to turn off their monitors or close their laptops, or turn away from the computer (depending on the layout of the room).

Possible Modifications and Accommodations:

1. Partner a student in need with a more advanced (and helpful) peer.

It is common for students to engage in "pair programming" to advance their understanding. Pair programming involves students, usually of the same gender, working on the same computer together.

2. Modify requirements of the assignment.

Instead of requiring students to program 3 scenes of a story, try 2 scenes. Instead of requiring students to use 5 sprites, try 2 or 3.

3. Start scripts for the student.

To create scripts in Scratch, a student must start with an Event block (i.e. "When key clicked"), and program a corresponding action (i.e. "Glide 10 steps"). A teacher could discuss a student's storyboard, and assist the student in starting his or her scripts with Event blocks. Then, the student only needs to program the desired actions.

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	Sci	ence and Scratch	Programming Dig		
			ite science topic that you le	<u> </u>	
	(your understanding of the		
		(3) Then, pro	gram your story in Scratch!		
1. Wha	nt is your science topic?	·			
		l using the boxes below. C adult before moving to th	onsider which Scratch tools	or blocks you will use to	create the story. Whe
you	illisii, check ili with an	addit before moving to th	e computer:		
Pictures:					
Draw a series					
of pictures to show your					
story!					
low will you					
program?					
Which Octopi					
tools could					
you use?					

		Partner 1 Number: Partner 2 Number:	
PT	"IMIZE: Brainstorm with your partner. How can you make your program better? C		e a
	Scratch tool you haven't used yet (e.g., broadcast and receive, scene or costume of		
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FLE	ECT: COMPLETE AT THE END OF CLASS		
	ECT: COMPLETE AT THE END OF CLASS Were you able to create the story you imagined? Why or why not?		
-	Were you able to create the story you imagined? Why or why not?		
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-	Were you able to create the story you imagined? Why or why not?	vould you change?	