



21 Computational Thinking Q6 Evaluation (1 class period)



[21. Computational Thinking](#)

[21.Q6 Evaluation](#)

Overview of this Thing: Computational thinking can be used to take a complex problem, understand what the problem is, and develop possible solutions to solve or explain it. In this Thing, students will learn about the stages of computational thinking (decomposition, pattern recognition, abstraction, algorithms, evaluation).

Thing Learning Objectives:

1. Understand computational thinking [Computational Thinker].
2. Be able to solve complex problems using computational thinking [Computational Thinker].
3. Be able to break down a problem into smaller, more manageable parts [Computational Thinker].
4. Know how to look for patterns and sequences [Computational Thinker].
5. Be able to focus on important information only [Computational Thinker].
6. Be able to develop a step-by-step solution to the problem [Computational Thinker].
7. Know how to use coding to automate a task [Computational Thinker].
8. Understand computational design by applying technology to a problem [Innovative Designer].
9. Understand programming as you complete hands-on activities, solving problems encountered [Computational Thinker].
10. Understand the coding your program creates [Empowered Learner].

This Quest: In this Quest, you will evaluate what you have accomplished during the stages of computational thinking.

Quest Learning Objectives:

I can:

- Take a good look at my tricky problem and how I solved it.
- Listen to helpful feedback to make my work even better.
- Make improvements based on what I've learned and what others suggest.

Link to [Vocabulary Quizlet](#)

Vocabulary:

Constructive feedback: Constructive feedback means helpful advice that points out what you did well and gives ideas on how to improve.

Criteria: Criteria means the rules or standards you use to decide if something is good, correct, or meets the requirements.

Evaluation: Evaluation means looking closely at something to judge how good, useful, or successful it is.

Feedback: Feedback is the receiver's response to a message.

Iterate: Iterate means to do something again and again, making small changes each time to improve it.

Optimize: Optimize means to make something work the best it can by improving it or using resources wisely.

Test: Test means trying something out to see if it works the way you want or to check how well it performs.

For accommodation ideas, visit the [Accommodations Toolbox page](#), then select the “Quest/Area of Need” listed in the menu on the right of the page.

Pre-Planning

Introduction page:

Play the video as a class and take time to discuss the fact that feedback is used to improve their work. Stress the importance of providing good feedback and how it is used to make each project or product as good as it can be.

Improve & Feedback page:

The video on this page will help reinforce the idea of providing good feedback.

It is important that students know how to collect feedback. It may be that a quick lesson on how to create and administer Google Forms or Microsoft Survey is needed at this point (By Jan. 2026, there will be a lesson in Thing 13 Data Detective on creating these forms).

Provided to the students on the website:

If you have never used either program, here are tutorials to assist you.

- [Google Forms help](#)
- [Survey Monkey help](#)

- [Microsoft Forms help](#)

Students should then be given time to collect the feedback, review the feedback, and make improvements based on the feedback.

The student's 12.Q1 Computational Thinking Planning Document will have questions that need to be answered and outline tasks to complete.

You will want to remind them to turn the document in or share it with you based on your in-class practices.

Videos and resources in this Quest. You must check that students have access to these resources on their devices.

Websites

- [Google Forms](#)
- [Google Forms Help](#)
- [Microsoft Forms](#)
- [Microsoft Forms Help](#)
- [Survey Monkey](#)
- [Survey Monkey Help](#)

Videos from Outside Sources

- [How to Give Constructive Feedback YouTube](#)

21T4S Videos

- None

21T4S Documents & Quizzes

- [12.Q1 Computational Thinking Document](#)
- [Vocabulary Quizlet](#)

Student Checklist [21.Q6 Student Checklist](#)

Broken Link or Content Update Report



Please select [this link](#) or the broken link icon to report any broken links or content no longer applicable so that we can quickly update it. Thank you for your help.

Assessment Options: <i>Ideas for assessing student work for this Quest? Link to a rubric you create for this Quest, a quiz, and or a worksheet you create. See Rubric by Liz Kolb.</i>	
Notes:	

Teaching ideas shared by other educators:

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