

## Standard: CS.T.01 Grade: K

### Standard K.CS.T.01

Recognize the possibility **computing systems** might not work as expected and identify basic **hardware** and **software** problems using appropriate technical terminology (e.g., monitor turned off, volume decreased on headphones).

### Essential Skills

Use appropriate terminology to identify issue and/or part of **computing device** that is not functioning correctly.

### Essential Questions

Why do you need to use the right words when describing a computer problem?

What steps can you take to fix a problem with a **computing device**?

### Explanation

Problems with **computing systems** have different causes. Students at this level do not need to understand those causes, but they should be able to communicate a problem with accurate terminology (e.g., when an **application** or **program** is not working as expected, a device will not turn on, the sound does not work, etc.) and use simple **troubleshooting** strategies to attempt to remedy it. **Rebooting** a device (powering off and on again) is often one of the first things students should try.

### Think of this as similar to....

If you are walking and your foot begins to hurt, first you check to see if you have a rock in your shoe, then you check to see if your sock is bunched up, finally you check to see if you have a cut on your foot.

## Implementation Examples—What would this look like in the classroom?

Title	Description	Link	Content Connection & Notes
<b>Troubleshooting</b>	<p><b>Grade K</b>--Troubleshooting can be included organically when using any device. When a problem arises, help students articulate what the issue is (for example: they can't hear, nothing is on the screen)</p> <p><b>Grade 1</b>--Students should begin to pinpoint issues they are having--if they can't hear they can check the headphones, the volume, etc.</p> <p><b>Grade 2</b>--Students attempt to resolve issues with their devices independently. They should use accurate vocabulary to describe what is wrong and how they attempt to fix it (for example: There is no sound coming from the headphones, so I checked the volume which was fine; I then tried a different set of headphones and those worked.)</p>		

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These annotations are a collaboration between [Maryland Center for Computing Education](#) and the [Maryland State Department of Education](#).