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# Online Calculators in the Test Delivery System

2018–2019

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*Prepared by the American Institutes for Research® (AIR)*





# Table of Contents

<b>About Calculators in the Test Delivery System .....</b>	<b>3</b>
Standard Calculator .....	3
Scientific Calculator .....	3
Full Function Calculator .....	3
<b>Accessing the Sample Calculators.....</b>	<b>4</b>
Open a Sample Calculator on Windows/Mac/Linux .....	4
<i>Create a Desktop Shortcut to the Sample Calculator .....</i>	<i>5</i>
Open a Sample Calculator on a Mobile Tablet.....	6
<i>Save a Sample Calculator to your Home Screen for iOS 8 .....</i>	<i>6</i>
<i>Bookmark and Add a Sample Calculator to your Home Screen for Android .....</i>	<i>6</i>



## About Calculators in the Test Delivery System

The Desmos HTML5 calculator is used by millions of students around the world and can be accessed from the web, or on iOS, Android and Chrome apps. This calculator is fully accessible at the WCAG 2.0 AA level (optimized for blind and visually impaired students).

Three versions will be used in ISAT assessments:

### Standard Calculator

Available for: Mathematics Grade 6 and Science Grade 5.

<https://www.desmos.com/fourfunction>

### Scientific Calculator

Available for the following tests: Mathematics Grades 7-8 and Science Grade 7.

<https://www.desmos.com/scientific>

Students should use the practice tests to familiarize themselves with the scientific Desmos calculator.

### Full Function Calculator

Available for the following tests: Mathematics HS, Biology End-of-Course and Chemistry End-of-Course.

<https://www.desmos.com/calculator>

The Desmos site ([www.desmos.com](http://www.desmos.com)) contains a wide array of resources to help both teachers and students become familiar with the calculator.

The full Desmos user guide is available at:

[https://s3.amazonaws.com/desmos/Desmos\\_Calculator\\_User\\_Guide.pdf](https://s3.amazonaws.com/desmos/Desmos_Calculator_User_Guide.pdf)

# Accessing the Sample Calculators

All sample calculators are available on the ISAT portal at <https://idaho.portal.airast.org/>. We encourage bookmarking the sample calculators so that users can easily open them. Desktop/home screen shortcuts can also be created so that the sample calculators can be accessed without an internet connection. The online calculators work on all supported browsers, as listed in the *Comprehensive Technology Manual* on the ISAT portal.

## Open a Sample Calculator on Windows/Mac/Linux

1. Open your web browser and navigate to the ISAT portal at <https://idaho.portal.airast.org/>.
2. Navigate to the Resources page (see [Figure 1](#)).
3. On the Resources page, navigate to the Accessibility & Accommodations folder under either the **ELA/Literacy & Math Assessments** or **Science/EOC Assessments** folders (see [Figure 2](#)).

**Note:** You may also use the Advanced Search feature to find the calculator links.

Figure 1. Resources Drop-Down menu

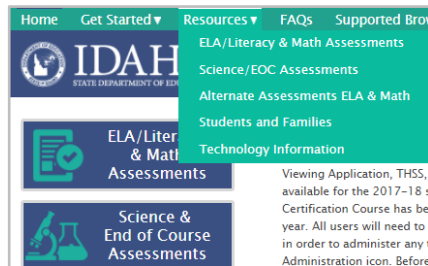
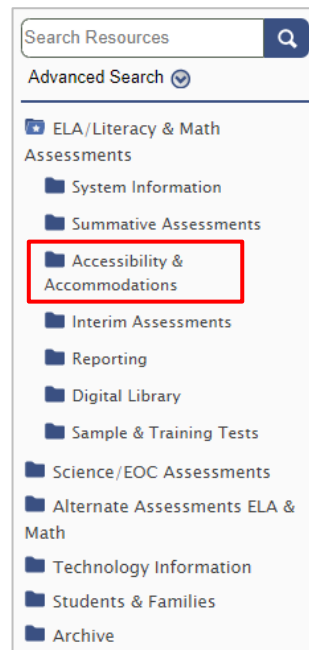


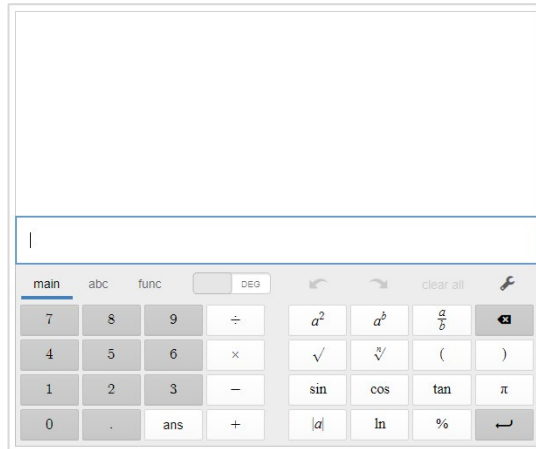
Figure 2. Accessibility & Accommodations folder



4. Click on a [Calculator] link.

The sample calculator you selected will open in the browser window (see [Figure 3](#)).

Figure 3. Scientific Calculator



## Create a Desktop Shortcut to the Sample Calculator

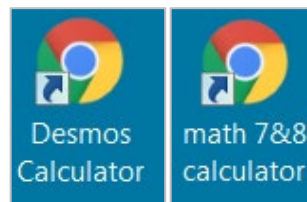
*Note: Ensure the browser window does not take up the full monitor.*

1. Use your mouse to hover over the lock icon in the address bar (see [Figure 4](#)).
2. Click and drag the lock icon to the desktop. A shortcut will appear that says "Calculator" and have the Google Chrome icon (see [Figure 5](#)).
3. *Optional: Rename shortcut icon*
  - a. Click in the icon text and it will become editable.
  - b. Change the text to what you want (e.g., "Graphing Calculator").
4. Double-click the icon to open the sample calculator. It will open in Firefox.

Figure 4. Browser Window Address Bar



Figure 5. Shortcut Icons



# Open a Sample Calculator on a Mobile Tablet

## Save a Sample Calculator to your Home Screen for iOS 10.3-12


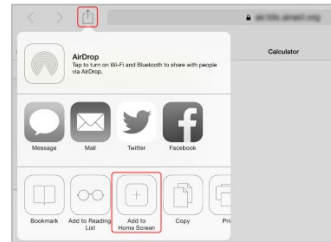
1. Tap the “share” icon [  ], which appears just to the left of the address bar (see [Figure 6](#)).
2. Tap the [Add to Home Screen] icon.

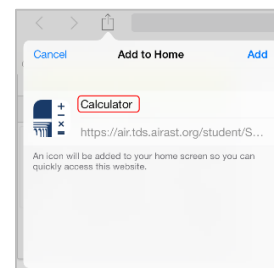
Figure 6. Share Icon



*Optional: Rename shortcut icon*

1. By default, all sample calculators are named “Calculator.”
  - a. Tap on the text that says “Calculator” (see [Figure 7](#)).
  - b. Using the tablet keyboard, add or modify text (e.g., “Graphing Calculator”).
2. Tap the blue [Add] link. The shortcut icon will appear on the Home screen.

Figure 7. Rename Shortcut Icon



## Bookmark and Add a Sample Calculator to your Home Screen for Android

### Save the Sample Calculator as a Bookmark



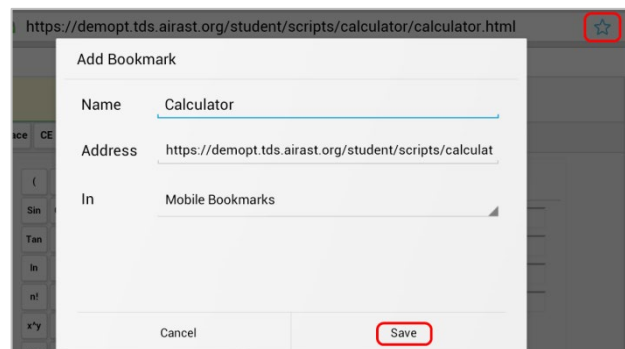
1. Tap the menu icon [  ], which appears on the right side of the address bar. Then select the star icon [  ]. The **Add Bookmark** screen will open (see [Figure 8](#)).
2. *Optional: Modify the bookmark name*
  - a. Tap the text and then use the keyboard to change the name.
  - b. Tap the down arrow to close the keyboard.
3. Tap [Save].

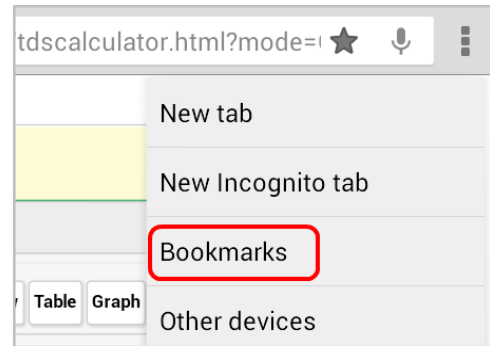
Figure 8. Save Calculator as a Bookmark



## Add the Calculator Bookmark to the Home Screen

1. Tap the menu [☰] icon, which appears in the upper right corner. The menu will open (see [Figure 9](#)).
2. Tap [**Bookmarks**]. The list of your bookmarks will appear.

Figure 9. Add Calculator Bookmark to Home Screen



3. Tap on the calculator bookmark.
4. Tap the menu [☰] icon.
5. Tap [**Add to home screen**]. Another window will pop up (see [Figure 10](#)). Click the add button. The bookmark will be added to your tablet's home screen.

Figure 10. Add to Home Screen

