Lesson 14: Higher level math instruction

Objective:
Students will learn about high-quality, free online resources for learning higher level mathematics.

Overview:
Students will create free user accounts on the Brilliant and MIT Open Courseware websites and will log into these sites to access mathematics materials.

Lesson preparation:	Activity
Teacher and students will need access to the internet. Open the PowerPoint for Lesson 14. Print copies of the Lesson 14 pre-test and post-test. Go to http://aspirations.sparc37.com/ and click on the Academic Record link at the bottom. Find the links labeled "High Level STEM" and Open Courses MIT." These are the links students will explore in this lesson.	Distribute copies of the pre-test, ask students to complete, and collect pre-tests. The pre-test will let students know what they should learn from this lesson. Review the PowerPoint with students. You may need to revisit slides as you conduct the lesson activities. Go to http://aspirations.sparc37.com/ and click on the Academic Record link at the bottom. Find the links labeled "High Level STEM" and Open Courses MIT." These are the links students will explore in this lesson. Click the link for "HIgh Level STEM" to access the "Brilliant" website. Create a free account and explore the "Courses" and "Practice" menus. Click the link for "Open Courses MIT" to access the MIT Open Courseware website and explore the "Find Courses" menu. Distribute copies of the post-test, ask students to complete, and collect post-tests. Compare pre- and post-test results.

Suggestions for Differentiation:	Discussion:
Google Chrome is the suggested browser if language translation is required. Simply right-click anywhere on the page and choose the "Translate" option. You may need to use the drop-down to select the preferred language.	Share one interesting course or activity you discovered at one of these websites. How can you use these sites during and after high school?