

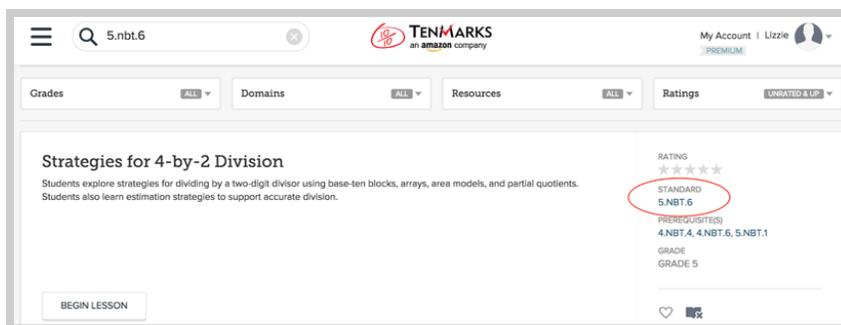
Goal of Lesson

Students who continue to struggle in math oftentimes are highly motivated when they first begin to have success. Success leads to a new confidence boost, and that feeling of excitement becomes addictive.

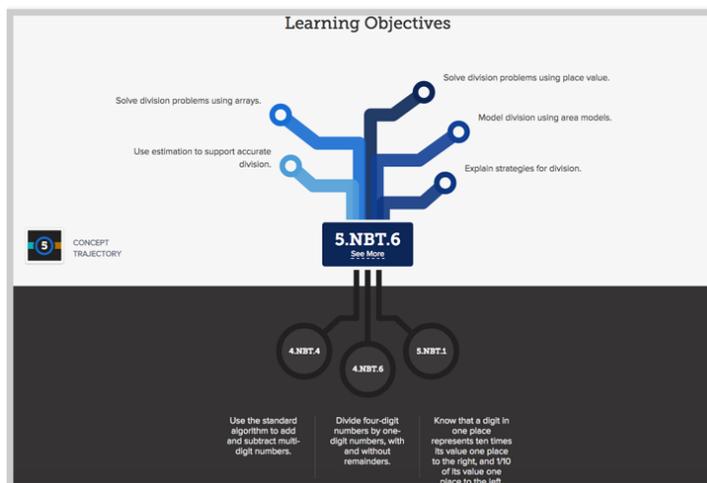
The goal of this lesson is to help students succeed by assigning them work appropriate to their level of knowledge.

Prep Required

- As you plan your lesson for the week, identify what standards you will cover.
- Then identify prerequisite standards:
 - Log in to your TenMarks accounts.
 - Continue on the left to Lessons. (If you are already in your TenMarks accounts, click on the grey avatar icon in the top right and select Lessons.)
 - Click on the magnifying glass icon in the top right corner, and type one of the standards you are covering this week in the search bar.
 - Click on the standard to open its concepts tree.



- You will see the standard's concept tree. Learning objectives are shown as branches. Scroll down to see prerequisite topics, shown as roots.



- Read each prerequisite standard, and decide which standard struggling students need to review.
- Create an assignment that covers a prerequisite standard for specific students, based on their level.

Introduction to Students

- Let the group of students who received the assignment know you created an assignment specifically for them, and tell them the name of the assignment so they can find it in their accounts.
TIP: Think about your class' dynamics. Do you want to pull this group of students aside into a small group while the rest of the class works on the regular class assignment? Or, do you want to talk to specific students while the class is together as a whole group? If your class is more sensitive, it may be better to pull students aside into a small group.
- Set expectations for this assignment, and ask students to go slowly. You can say, "This assignment is about completing each problem as accurately as possible, so take your time."
- If students are stuck on a problem, have them:
 - Show their work.
 - Use all your hints.
 - Look up definitions to words you don't know.
 - Watch the TenMarks videos in the assignment.

Throughout Lesson

Check on students' progress. If some students are still struggling with the questions from a prerequisite topic, the students may need to review the next level of prerequisite standards.

Student Materials: TenMarks accounts.

Wrap Up

At the end of class, ask students how they felt about the assignment. Explain to them that anyone can achieve in math if they put in work and if they are given practice on the right type of math problems. Students need to know that they are not innately bad at math, and low scores on assignments is not an indicator of ability. Low scores do not mean a student is 'bad at math'; rather, low scores indicate that more learning needs to happen.

Here is a video to share with students that sums up the idea of a Growth Mindset applied to mathematics:

- **Jo Boaler on Udacity** (Youtube)
- **Jo Boaler on Udacity** (if you cannot access Youtube from your school network.) Scroll down the page to "Coffee Break EP15: Brain Growth, Mindset, and Learning".