

## STEPS TO SUCCESSFUL IMPLEMENTATION

IXL is the perfect resource for modelling new concepts during whole class teaching.



## LET'S LOOK AT AN EXAMPLE LESSON TOGETHER

*Imagine:* You are working with your class on rational and irrational numbers and will be using IXL to kick off the lesson.

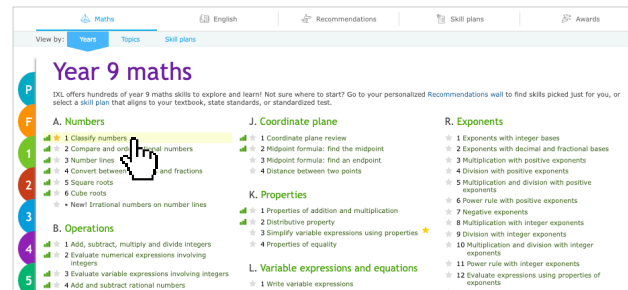


# 1.

### Plan your lesson

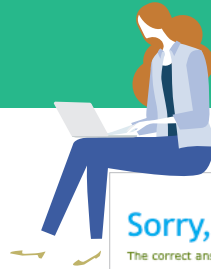
#### Choose an IXL skill that matches your objective

You can find skills by scanning the Years page or by using your IXL skill plan. For this lesson, you might look at the category Numbers and choose the 1st skill, Classify numbers. Highlight your choice for your students by clicking on the star to the left of the skill name.



# 2.

## Deliver your lesson



### Employ an inquiry-based approach

Project your chosen IXL skill in your classroom and have students work together to answer the first question. Then, walk through the explanation as a class.

Note the key concepts in the Remember box, and talk through each step to solve the problem. Answer a few more questions as a class or in small groups.

### Sorry, incorrect...

The correct answer is:

<input checked="" type="checkbox"/> irrational number	<input type="checkbox"/> whole number
<input checked="" type="checkbox"/> real number	<input type="checkbox"/> integer

Got it

### Explanation

Which of the following describe  $\sqrt{2}$ ? Select all that apply.

<input checked="" type="checkbox"/> irrational number	<input type="checkbox"/> whole number
<input checked="" type="checkbox"/> real number	<input type="checkbox"/> integer

You answered:

<input type="checkbox"/> irrational number	<input type="checkbox"/> whole number
<input checked="" type="checkbox"/> real number	<input checked="" type="checkbox"/> integer

remember

Whole numbers are counting numbers and 0: 0, 1, 2, 3, ...

Integers are positive whole numbers, their opposites, and zero: ..., -3, -2, -1, 0, 1, 2, 3, ...

Irrational numbers cannot be written as  $\frac{a}{b}$  (where  $a$  and  $b$  are integers and  $b$  is not zero). When written as decimals, irrational numbers do not terminate or repeat.

Real numbers include all rational and irrational numbers.

solve

Whole numbers are counting numbers and 0. So,  $\sqrt{2}$  is not a whole number.

Integers are counting numbers, their opposites, and 0. So,  $\sqrt{2}$  is not an integer.

$\sqrt{2}$  (which is 1.414 21...) cannot be written as a fraction, a terminating decimal, or a repeating decimal. So,  $\sqrt{2}$  is an irrational number.

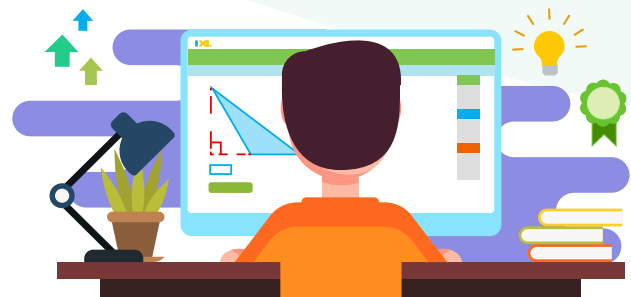
Since real numbers include irrational numbers,  $\sqrt{2}$  is also a real number.

There are two correct answer choices.  $\sqrt{2}$  is an irrational number and a real number.

Got it

### Cement learning with individual practice

Have students work on your selected IXL skill individually, either in class or for homework. Set a SmartScore goal of 80 (proficiency), but encourage students to strive for 100 if they feel ready.



# 3. Check for understanding

## Skill Analysis

Visit the Skill Analysis report to check for assignment completion and to gain insight on your students' understanding of the lesson. This report gives you overall stats on class performance and even groups your students by the level of difficulty they are working at within the skill.

Mouse over each student's name for deeper analysis of student progress. Keep an eye out for students who have a trouble spot and may need additional support or practice with foundational skills.

