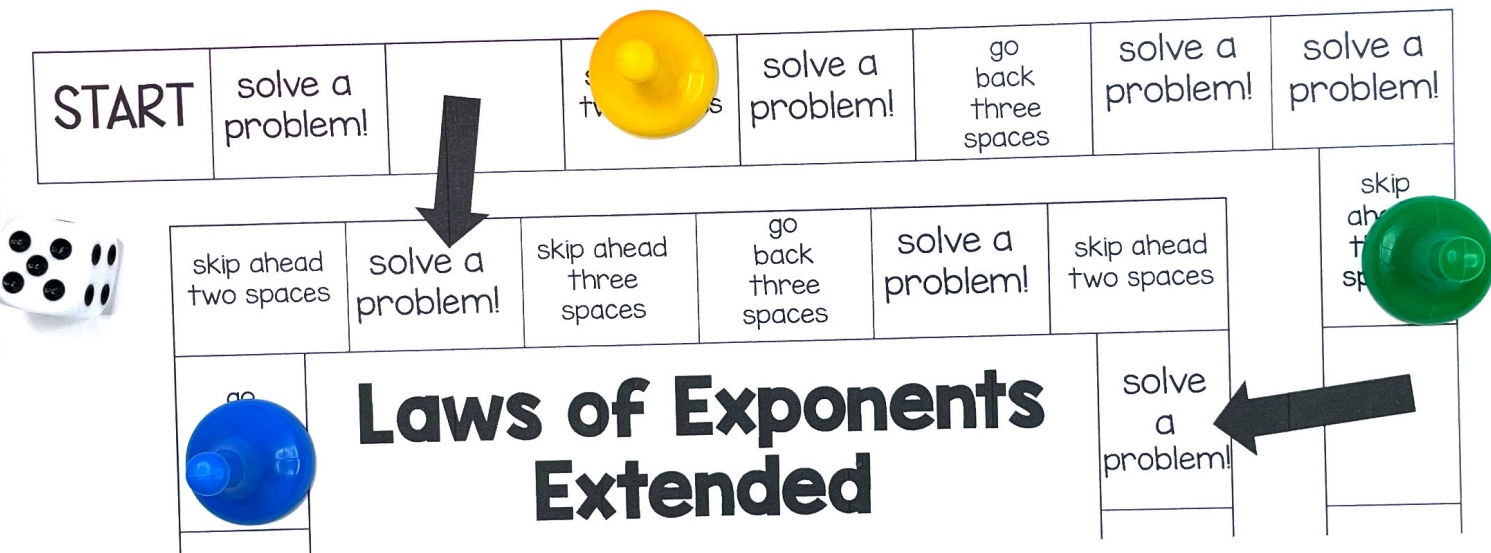


Laws of Exponents Extended

SCROLL
to take a look inside!



Name: **Laws of Exponents Extended Recording Sheet**

1	$\frac{1}{8}$	2	$\frac{1}{27}$	3	$\frac{1}{256}$	4	$\frac{1}{5}$
5	$\frac{1}{36}$	6	$\frac{1}{7}$	7	$\frac{1}{343}$	8	1
9	$\frac{1}{128}$	10	$\frac{1}{9}$	11	$\frac{1}{16}$	12	$\frac{1}{125}$
13		14		15		16	

Math Skills Included:

10
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{3^8}{3^{10}}$

11
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{4^1}{4^3}$

18
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{11^3}{11^6}$

20
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{13^4}{13^5}$

12
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{5^4}{5^7}$

2
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{3^4}{3^7}$

19
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{12^6}{12^8}$

14
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{7^4}{7^6}$

6
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{7^5}{7^6}$

8
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{16^1}{16^2}$

15
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{8^3}{8^6}$

16
The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.
 $\frac{2^4}{2^6}$

Apply the laws to generate equivalent numerical expressions, limited to integer exponents and rational number bases

You'll Receive

- ★ Teacher Tips
- ★ Student Directions
- ★ Printable Math Board Game
- ★ Recording Sheet
- ★ Answer Key



START

solve a problem!

skip ahead two spaces

solve a problem!

skip ahead three spaces

go back three spaces

solve a problem!

skip ahead two spaces

solve a problem!

1

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Student Recording Sheet

Name: _____

Laws of Exponents Extended Recording Sheet

1	$\frac{1}{8}$	2	$\frac{1}{27}$	3	$\frac{1}{256}$	4	$\frac{1}{5}$
5	$\frac{1}{36}$	6	$\frac{1}{7}$	7	$\frac{1}{343}$	8	1
9	$\frac{1}{128}$	10	$\frac{1}{9}$	11	$\frac{1}{16}$	12	$\frac{1}{125}$
13		14		15		16	

14

The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.

$\frac{7^4}{7^7}$

15

The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.

$\frac{8^{10}}{8^{13}}$

16

The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction.

$\frac{9^{11}}{9^{14}}$

HAPPY TEACHERS SAID...

“ This was a hit during centers. All students were engaged, and better yet – learning! Love this! ”

“ My students love playing games and a simple, easy prep game like this is a great addition to math centers, early finisher activities, and review days. ”

“ These are great for small group stations! What a fun task card adaptation. Students get to play a fun and competitive board game, but they also get to practice learning. Plus, the recording sheet makes it easy to grade and monitor student progress; they aren't just playing they are actively learning and participating with evidence of ability. Great resource! ”

What's the Best Way to Use this Game?

- ✓ Math Centers or Stations
 - ✓ Whole Group Practice
 - ✓ Morning Work
 - ✓ Partner Activity
 - ✓ Early Finisher Tasks
 - ✓ Substitutes

Tips for Playing Math Games:

- ★ Read the directions to the students and model how to play.
- ★ Be prepared with dice/spinner and game pieces for each player (paperclips, pencil top erasers, pieces from another game, etc.)
- ★ Every student should solve every problem – not just the person who rolls.
- ★ Create groups of 2-4 students. The lower number of students means the more focused students are while playing.

Tips for Playing Math Games:

- ★ Remind students that the focus is not playing the game...that's just an added bonus! The focus should be on practicing the math skills.
- ★ Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a different strategy or help coach each other through the problem.

Why Board Games?

Research shows that
challenge-based gamification in
the classroom lead to an increase
of 34.755% in student performance

(ScienceDirect, 2020).

Students won't even realize they are learning!

Laws of Exponents Extended

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9 $\frac{1}{128}$	10 $\frac{1}{9}$	11 $\frac{1}{16}$	12 $\frac{1}{125}$
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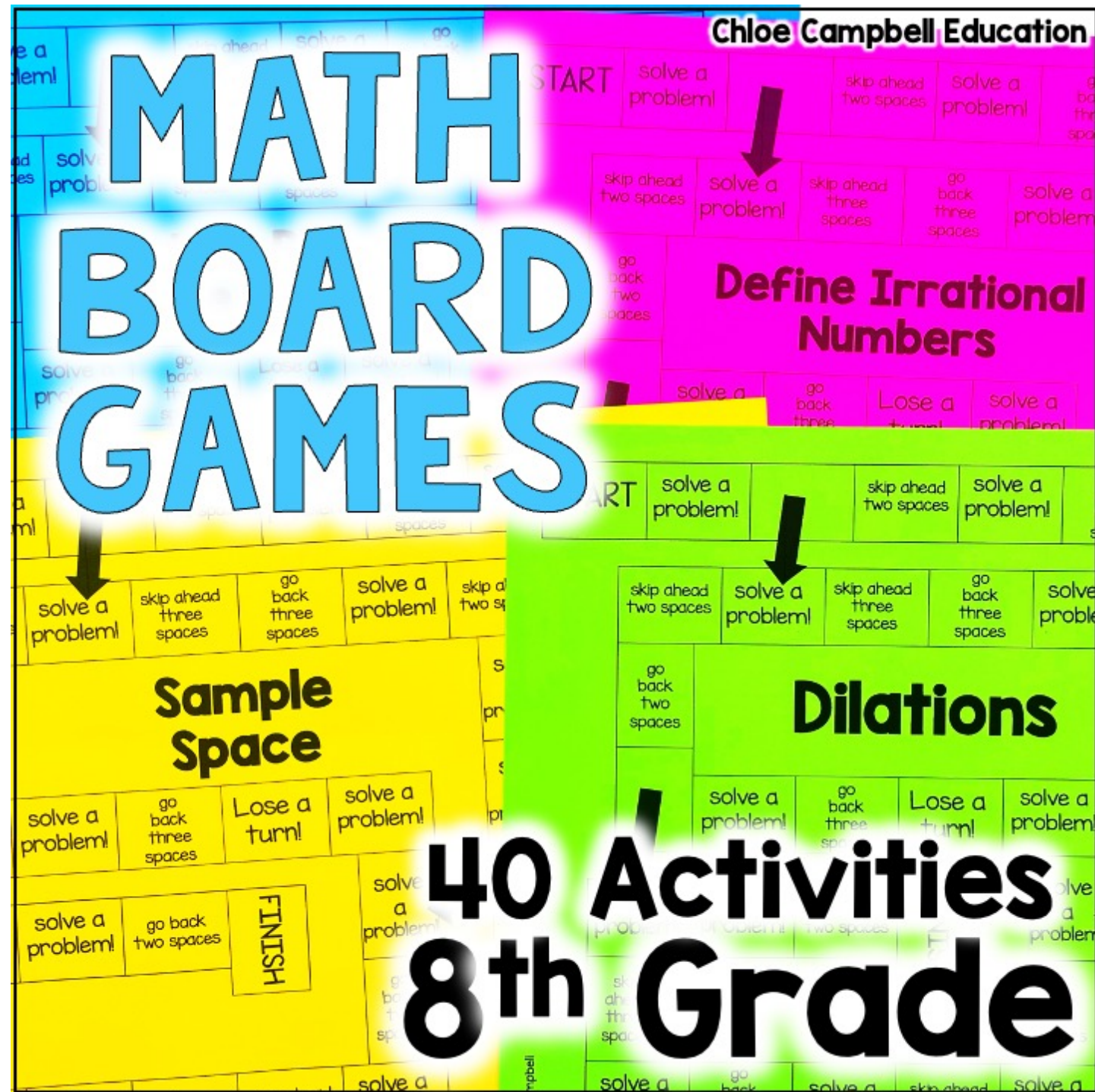
Exponent Cards:

- 18 The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction. $\frac{11^3}{11^6}$
- 19 The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction. $\frac{12^6}{12^8}$
- 20 The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction. $\frac{13^4}{13^5}$
- 14 The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction. $\frac{7^4}{7^6}$
- 15 The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction. $\frac{8^{10}}{8^{13}}$
- 16 The expression as a fraction, is equivalent to rational number base with a negative exponent, which is equivalent to a fraction. $\frac{9^{11}}{9^{14}}$

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student engagement
and student
achievement increase!

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the
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