

Structure

- ▶ Independent Rotation
- ▶ System in Place - Management
- ▶ Intentional Organization
- ▶ Single Task vs. Multiple Task
- ▶ Student Accountability
- ▶ Pre-Teaching



Station Activities

- ▶ Begin with the End in Mind
- ▶ Aligned to CCSS
- ▶ Standards for Mathematical Practice
- ▶ Demonstrate Independence
- ▶ Develop Conceptual Understanding
- ▶ Create Context and Application
- ▶ Build Fluency

Pre-Teach

- ▶ Fraction Comparison

Blackline Masters
<http://essdk.me/ncmAtlanticCity>

Comparison

- ▶ Distance to Zero
- ▶ Common Denominators
- ▶ Common Numerators
- ▶ Distance to One
- ▶ Benchmark to $\frac{1}{2}$ and to One
- ▶ Distance to $\frac{1}{2}$



Things you should know:

- ▶ Accountability sheets located in the station tub
- ▶ Manipulatives available
- ▶ Communities for students to work collaboratively

| Station Checklist | | | Name: _____ |
|--------------------------|--------------------------|--------------------------|----------------------|
| Task #1 | Task #2 | Task #3 | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Using Unit Fractions |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Area |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sets |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Comparison |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Problem Solving 1 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Problem Solving 2 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Teacher Station |

Stations

- ▶ Using Unit Fractions
- ▶ Sets
- ▶ Area
- ▶ Comparison
- ▶ Problem Solving 1
- ▶ Problem Solving 2



Reflection & Questions

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- ▶ Today's Blackline Masters and Presentation
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Reflection



My learning from this morning is like.... Because...





Learning Stations for Math

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Name:

Station Checklist

Task #1

Task #2

Task #3

Using Unit Fractions

Area

Sets

Comparison


Problem Solving 1

Problem Solving 2

Teacher Station

Notes:

Using Unit Fractions - Answers

| | | | |
|--------------------------------------|--------------------------------------|---|----------------------|
| #1 $\frac{1}{3}$ | #5 $\frac{1}{2}$ | #7 $\frac{1}{6}$ | #8 $\frac{5}{8}$ |
| #9 $\frac{1}{2}$ or $\frac{4}{8}$ | #10 $\frac{3}{6}$ & $\frac{1}{2}$ | #14  | #17 $\frac{3}{4}$ |

Area - Answers

| | | | |
|--------------------|-------------------|----------------------------|--------------------|
| #1 - 1 triangle | | #3 - 2 triangles | |
| #5 - 3 wholes | #7 - 6 wholes | #9 - $1\frac{1}{2}$ wholes | #10 - 3 wholes |
| #11 - 3 triangles | #12 - 9 triangles | #17 - 5 triangles | #19 - 4 triangles |
| #20 - 11 triangles | #21 - 6 triangles | #22 - 4 triangles | #23 - 16 triangles |

Sets - Answers

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| #1 - 4 | | | | | |
| #2 - 12 | #5 - 20 | #7 - 5 | #8 - 9 | #11 - 21 | #14 - 40 |
| #16 - 28 | #18 - 12 | #19 - 44 | #20 - 18 | #21 - 35 | #25 - 3 |
| #26 - 3 | #27 - 6 | #28 - 6 | #29 - 6 | #30 - 8 | #35 - 12 |

Comparison - Answers

| | | | | | | | |
|---------------------|----------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|----------|
| #2 $\frac{5}{7}$ | #12 $\frac{8}{9}$ | #15 $\frac{9}{16}$ | #23 $\frac{4}{10}$ | #26 $\frac{1}{3}$ | #28 $\frac{3}{8}$ | #29 $\frac{4}{10}$ | #35 < |
|---------------------|----------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|----------|

Problem Solving 1 - Answers

| | | |
|--|---|----------------------------------|
| #3 $\frac{42}{100}$ or $\frac{21}{50}$ inch of rain | #11 $\frac{31}{24}$ or $1\frac{7}{24}$ pizza | #17 $4\frac{23}{24}$ yards |
| #22 $2\frac{1}{3}$ pounds of cherries | #27 $\frac{4}{10}$ or $\frac{2}{5}$ of the class went to the evening movie | #32 $4\frac{1}{4}$ hours less |

Problem Solving 2 - Answers

| | | |
|--|--|---|
| #1 3 cans of root beer | | |
| #3 15 cream filled chocolates | #12 Brianna's swimming pool area would be $\frac{1}{2}$ the size of Raquel's | #14 The first product is 3 times larger or the second product is $\frac{1}{3}$ the first. |
| #15 less than 2 square meters | #17 more than 4 square meters | #20 $36\frac{3}{4}$ cards |
| #26 $\frac{1}{10}$ stories and labels will vary | #27 80 stories and labels will vary | #28 7 bows |

Use the code:
NCTMAtlanticCity
 until November 30 and receive
 free shipping



Learning Stations

for Math

Learn More
Here



<http://essdk.me/MathStation>

| Fraction Action | Grades |
|---------------------------|--------|
| ● Area | 3 - 6 |
| ■ Sets | 3 - 6 |
| ■ Comparison | 3 - 6 |
| ● Using Unit Fractions | 3 - 6 |
| ■ Problem Solving 1 | 5 - 6 |
| ■ Problem Solving 2 | 5 - 6 |
| ✿ Equivalencies 3rd Grade | 3 |
| ✘ Equivalencies 4-6 Grade | 4 - 6 |

| Flip Flop Facts | Grades |
|----------------------------------|--------|
| ■ Sums of Five & Ten | K - 1 |
| ★ Whole Number Add & Subtract | K - 2 |
| ★ Whole Number Multiply & Divide | 3 - 5 |
| ■ Integers Addition | 7 - 8 |
| ■ Integers Subtraction | 7 - 8 |
| ■ Integers Multiply & Divide | 7 - 8 |

| Tick Tock | Grades |
|----------------|--------|
| ★ Telling Time | 1 - 2 |
| ● Elapsed Time | 2 - 3 |

| Geometric Gems | Grades |
|---------------------|--------|
| ■ Shapes & Position | K - 1 |

| Measurement Mix | Grades |
|--------------------|--------|
| ● Area & Perimeter | 3 - 4 |
| ★ Counting Coins | 2 - 4 |

| Nifty Numbers | Grades |
|--------------------------|--------|
| ● Comparing Less than 20 | K - 1 |
| ■ Missing Numbers | K - 1 |
| ■ Matching Quantities | K - 1 |
| ● Even or Odd and Arrays | 2 |
| ■ Relational Thinking 1 | K - 4 |
| ■ Relational Thinking 2 | 3 - 6 |
| ● Place Value 1 | K - 2 |
| ● Place Value 2 | 2 - 4 |
| ● Place Value 3 | 4 - 6 |

| PhotoSparks \$12.95 | Grades |
|---------------------|--------|
| Math 1 | K - 12 |
| Math 2 | K - 12 |

- ★ More than 54 cards (4.25 x 3.66) \$10
- 24 Cards (5.5 x 4.25) \$8
- 36 Cards (4.25 x 3.66) \$8
- ✿ 72 Cards (4.25 x 2.2) \$10
- ✘ 150+ Cards (4.25 x 2.2) \$12

Each deck comes with a task sheet that provides direction for use, extensions, answers and possible student accountability ideas.