Eureka Math

Kindergarten Module 3 Lesson 12

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Directions for customizing presentations are available on the next slide.



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Reflecting your Teaching Style and Learning Needs of Your Students

- > When the Google Slides presentation is opened, it will look like Screen A.
- > Click on the "pop-out" button in the upper right hand corner to change the view.
- \succ The view now looks like Screen B.
- ➤ Within Google Slides (not Chrome), choose FILE.
- ➤ Choose MAKE A COPY and rename your presentation.
- ➤ Google Slides will open your renamed presentation.
- ➤ It is now editable & housed in MY DRIVE.





Materials

- 5-group cards in vertical orientation
- Die (with 6 dot side covered)
- Dot Path (inserted in personal white board)
- Teacher Materials:
 - Balance scale
 - Marker
 - 2 pennies
 - Small bag linking cubes
 - Small counters
 - Beans
 - As heavy as recording sheet
- Student Materials:



Materials

- Student Materials:
 - Balance scale / pair or small group
 - 4 small bags of various items to use as weights (pennies, linking cubes, small counters, and large dried beans)
 - Collection of classroom objects for balance exercise
 - As heavy as recording sheet

Icons





Read, Draw, Write











Manipulatives Needed







Lesson 12

Objective: Compare the weight of an object with sets of different objects on a balance scale.

Suggested Lesson Structure

- Fluency Practice
 Application Problem
 Concept Development
 Student Debrief
 Total Time
- (12 minutes) (5 minutes) (27 minutes) (6 minutes) (50 minutes)





I can compare the weight of an object with sets of different objects on a balance scale.



5-Group Hands (3 min)

Raise your hands when you know how many dots are on top.

Ready?



5-Group Hands (3 min)

We can show this 5 group on our hands.

Vertically, show 5 and 1.

Let's push our hands out as we count on from 5



Roll and Draw 5-Groups (5 min)

Roll the die, count the dots, and then draw the number as a 5-group.



Hidden Numbers on the Dot Path (4 min)

Fold your dot path so that you can see only 6 dots. Place it inside your personal white board. How many dots can you see?

Circle 2 of them.

See how many twos you can circle on your dot path.

How many dots are on the whole dot path?

How many twos did you find hiding within the 6?

Application Problem (5 min)

Find one small item in your backpack. Put it on the balance scale. How many pennies do you think it will take to balance your object? Use pennies to test your guess. Make a picture of the balance with your object and the pennies. Finish this sentence, "My item is as heavy as a set of pennies."

What do you think would happen if you put another penny on each side of the balance scale? Test your guess!

Concept Development (27 min)

Look carefully at my balance. Now, watch as I put my marker on one side. Do you remember how I weighed my marker yesterday?





Concept Development

Let's try that again. I have a set of 2 pennies. Watch and see if the scale balances.

My marker is heavier than a set of 2 pennies. I don't have any more pennies. What should I do?

Look at the other items on the table. Is there another way to see how heavy the marker is?





Concept Development

Could I use my two pennies and a cube?

I'll take the pennies off and use a tower of cubes. Help me count how many cubes would be in a tower as heavy as my marker.

My marker is as heavy as a tower of 6 cubes. Let me put that on the recording sheet. I will draw the marker and the cubes, and I will write how many cubes in the box. (Demonstrate.)





Concept Development

What else could I use?

I will take off the cubes and use a set of beans this time. I wonder how many beans it will take to balance my marker. (Various responses.) Count with me. (Repeat experiment and recording with beans and small counters.)

Wow! Look what we've discovered. (Point to sheet.) My marker is as heavy as a tower of 6 cubes. My marker is as heavy as a set of 10 beans. My marker is as heavy as a set of 4 counters. Why are all the numbers different?



Concept Development

You and your partner can try this, too. Choose one object from your bag. Count how many pennies are as heavy as your object and record it on your sheet. Then count how many cubes are as heavy as the object. Do the same thing with the beans and the counters. Don't forget to guess before you test!



Put your things away. Who would like to share his/her recording sheet with our class? What did you discover?



Problem Set (10 min)





Debrief (8 min)

- Did you notice any patterns as you were
- balancing your object with sets of different things?
- Which set of things was the biggest? Which set was the smallest?
- Why were all of the sets different sizes?
- Compare your recording sheet with your friends'.
 Did you find the same answers?
- What math vocabulary did we use today to communicate precisely?