



## More About Math

### Fizzy's Lunch Lab – Summer Treatwave



#### Background for Leaders

In this unit, children will investigate a variety of math topics as they work through Fizzy's Lunch Lab challenges and learn how to make a healthy frozen snack. They will explore math topics appropriate for 6-8-year-old children including: sorting and classifying, using spatial sense, identifying coins, and doing simple addition and subtraction with money and measurement.

#### Sorting and Classifying

In these activities children will sort and classify food based on the attributes or food groups (such as fruits, vegetables, grains, protein, dairy). They may also sort food by size, shape, color, or temperature. Children at this age should be comfortable sorting food based on more than one attribute. For example, they can put all of the large frozen items in one pile and the small frozen items in another pile.

#### Spatial Sense

In these activities children use spatial sense to identify the position, location and direction of objects and will apply their spatial sense skills to read and navigate maps. People often use relative position to indicate an object's location; this means that they tell someone where an object is based on its location in relation to another object or objects. Children may need to practice this skill to ensure that they are using the vocabulary terms correctly and being as precise as possible. Vocabulary terms and phrases that children may use to describe relative position are: next to, above, below, behind, right and left. Once children are comfortable with these terms they may be strung together to give two directions. For example in the game **Pantry Hunt**, Corporal Cup asks children to find objects, "above and to the left of the can of carrots."

Another aspect of spatial sense is being able to read a map and give and/or follow directions using the map to get to a specific location. This requires children to identify landmarks on the map and in their environment; these landmarks act as their guides and assist them in navigating to their goal. Some of these landmarks may serve as obstacles which they need to avoid while others may be their goal location. For example one direction might be, "travel towards the tree" or "turn left at the trash can."

#### Identifying Coins and Adding/Subtracting with Money

In these activities and games children will be adding and subtracting money to stay within a budget or provide a customer with change. It is important that children understand these terms; a **budget is the amount of money that you have to spend** and **change is the amount that you get back when you pay for an item**. Children at this age are still learning the value of coins and how to add and subtract within one hundred. Therefore, they may need to draw a picture of what they are adding and subtracting or use manipulatives to make the experience more concrete.

#### Measurement

Children will need to apply measurement skills to measure the capacity of liquid and solid ingredients as they prepare their frozen snack. Children at this age should be learning to measure the capacity of liquids using cups, pints, quarts, and gallons. They will likely need to read fractions for some ingredients; halves, thirds, and fourths are the most common fractions that they will encounter. Measurement is also present in several games that challenge children to think about what combinations of small containers fill up a larger container. Having a good visual representation of the different container sizes will help children to visualize and even demonstrate this process.



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