



Afterschool Adventure!



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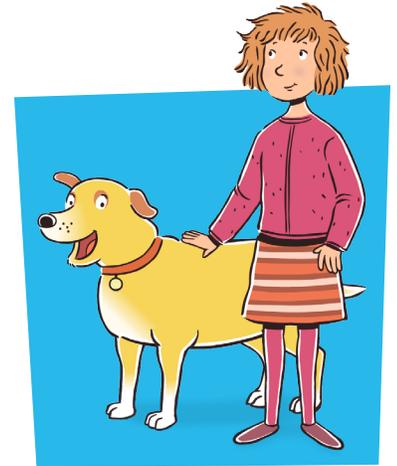
Professional Development Extension

More About Math

Martha's STEM Stories

Background for Leaders

Children in first and second grades should be aware that objects have “measurable attributes” such as length, height, weight or mass and temperature. They should be able to make measurements and comparisons for each attribute. This unit will help 6- 8-year-old children develop skills for measuring three of those attributes: **length, height and temperature.**



Recycling

Recycling is when we don't throw our garbage away, but use it to create new things. Scientists must use problem solving skills in order to come up with new ways to dispose of waste and ideas for how to recycle objects. Problem solving is a key math skill that incorporates applying problem solving to contexts outside of mathematics and monitoring and reflecting on problem solving strategies both of which are present in these activities.

Transportation

Transportation is a way for people or things to move from one place to another. Cars, buses, and bicycles are all methods of transportation. These methods of transportation were once new inventions that solved a problem in society; that people needed to get to places faster. As seen in Martha's story there are sometimes problems with transportation and other means of transportation must be found. This requires problem solving skills to analyze the situation and find a solution.

Measurement

Everyone uses measurement. Through these activities children will explore how bakers, doctors, carpenters, police officers, and others use measurement each day. They will also identify the measurement tools needed for each job: tools: scales, measuring tape, stopwatch, measuring cups, thermometers, etc. Children will need to be able to follow directions in order to measure accurately and make their own tasty treats.

Sharing Ideas About Inventions

Sharing Ideas about inventions requires children to use both problem solving skills and communication skills. When people come up with new gadgets or devices, or new ways of doing things, these things are called inventions. In order to come up with a new invention children must explore a problem, analyze their findings, and think of a new way to approach that problem. Once they have gone through this process, they use their findings to write a short newspaper article about invention to share with the group.



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