



NAME \_\_\_\_\_

DATE \_\_\_\_\_

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## Related Activities to Try at Home

Dear Family,

The activities below are related to the mathematics in the unit *Temperature, Height, and Growth*. You can use these activities to enrich your child's mathematical learning experience.

**Change Situations** Together with your child, look for things that change in different ways and at different speeds. Can you find some things that change more and more quickly? Can you find things that change steadily? Can you find anything that changes by gradually slowing down, or by gradually shrinking? Here are some ideas to start with:

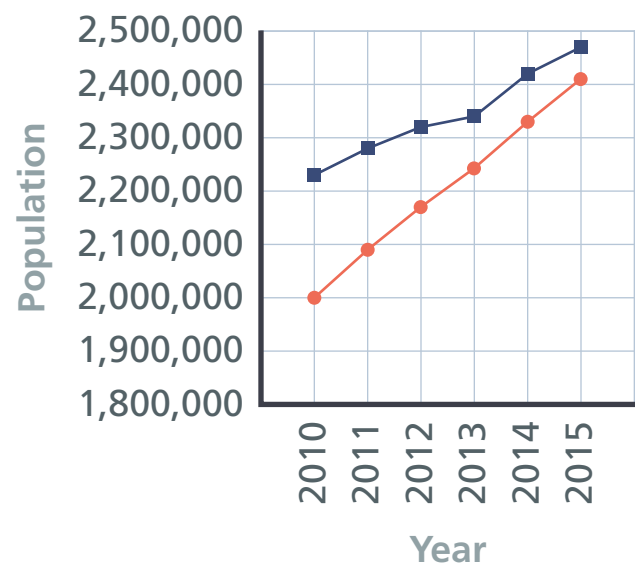
- the growth of a plant over time
- the speed of a bicyclist over the course of a race
- the growth of your child (and siblings) over time

Consider making graphs of any of these situations.

**What Is in the News?** Look online or in newspapers and other print material for graphs and tables that show something changing over time. Work with your child to make sense of these:

- What does a steep rise in a graph represent?
- What does a less steep rise in the same graph represent?
- How does a graph represent no change?

**Population Change**



—●— State A    —■— State B



NAME \_\_\_\_\_

DATE \_\_\_\_\_

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## Related Activities to Try at Home

**Marble Jar** Start with 4 objects in a jar (marbles, pennies, paper clips, or some other small objects). Imagine adding 6 more each day. How many will there be in 10 days? 20 days? 50 days? 100 days? Can you come up with a rule for determining the number of marbles in the jar after any number of days? Repeat the Marble Jar activity with other numbers (start with 5 marbles, add 9; start with 100 marbles, subtract 6; and so on). Can you make a graph to show these changes?

Number of Days	Number of Marbles
Start	4
Day 1	10
Day 2	16
Day 3	22
Day 10	?
Day 20	?
Day 50	?
Day 100	?
Any number of days	?