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## Math Unit | Grades 3-4 | Lesson 5: Phoebe Snapp Taffy

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### Lesson Description

The Maple family loves making salt water taffy. They make every kind of taffy they can possibly think of...even some really bizarre flavors. Why, the Maples make so many flavors now that it may even be the world's record! Being the taffy experts that they are, the Maples created a couple new flavors and started asking their customers which they liked the best. Based on the answers they get, they're going to sell the favorite flavors in the store. In this activity, students will chart the responses of some of their customers and use that information to give the Maples some advice.

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### Concepts

Statistics  
Chart

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### Objectives

Students will:

- Understand the purpose and practicality of statistics (a survey).
  - Represent numerical data in chart form.
  - Use Silver Dollar City examples to connect a math topic to real-life scenarios.
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### Content Standards

#### National Standards in Mathematics

**Topic:** Mathematical Reasoning

- Standard 1: Uses a variety of strategies in the problem-solving process.
  - Benchmark 7, Grades 3-5: Uses explanations of the methods and reasoning behind the problem solution to determine reasonableness of and to verify results with respect to the original problem.
  - Benchmark 6, Grades 6-8: Generalizes from a pattern of observations made in particular cases, makes conjectures, and provides supporting arguments for these conjectures (i.e., uses inductive reasoning).

**Topic:** Uses of Mathematics

- **Standard 9:** Understands the general nature and uses of mathematics.
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- Benchmark 1, Grades 3-5: Understands that numbers and the operations performed on them can be used to describe things in the real world and predict what might occur.
- Benchmark 1, Grades 6-8: Understands that mathematics has been helpful in practical ways for many centuries.
- Benchmark 2, Grades 6-8: Understands that mathematics often represent real things using abstract ideas like numbers or lines; they then work with these abstractions to learn about the things they represent.

### Grade Level Expectations

Algebraic Relationships: Understand patterns, relations, and functions. Create and analyze patterns.

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### Time Required

Approximately 20 minutes, varies by student

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### Materials

- Student Activity Sheet found on Kids-U-Cation website
  - Writing utensil
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### Procedures

1. Students will need to be aware of statistics and charts before completing this exercise.
  2. Print off student activity sheet from Kids-U-Cation website (teachers).
  3. Complete and turn in activity to the teacher for a participation or accuracy grade.
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### Closure

Review the key points of this lesson by discussing the following:

- How do statics play an important role in every-day life?
  - What advice did you give the Maples?
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### Assessment/Independent Practice

Give an assignment or test of your choice.



Name/Date: \_\_\_\_\_

## Phoebe Snapp Taffy

The Maple family loves making salt water taffy. They make every kind of taffy they can possibly think of...even some really bizarre flavors. Why, the Maples make so many flavors now that it may even be the world's record! Being the taffy experts that they are, the Maples created a couple new flavors and started asking their customers which they liked the best. Based on the answers they get, they're going to sell the favorite flavors in the store.

Use the chart to help the Maples organize their data (using tally marks). Here is what the customers said:

- Aunt Polly, a weekday customer: "Totally Sours"
- Big Jack, a weekend customer: "Totally Sours"
- Buckshot Annie, a weekend customer: "Key Lime"
- Jim Owen, a weekday customer: "Wildfire"
- Mary H., a weekday customer: "Key Lime"
- Eva, a weekend customer: "Totally Sours"
- Delilah, a weekday customer: "Key Lime"
- Frank, a weekend customer: "Totally Sours"
- Hannah, a weekday customer: "Key Lime"
- Pete H., a weekend customer: "Amaretto"
- Hugo, a weekend customer: "Totally Sours"

	Totally Sours	Key Lime	Other
<b>Weekday (M-F) Customers</b>			
<b>Weekend (Sat &amp; Customers Sun)</b>			

Find Phoebe Snapp Taffy on the Silver Dollar City Pathfinder. Write down the letter and number that shows where the store is located: \_\_\_\_ - \_\_\_\_\_. (And don't forget to stop by the shop before you leave so you can check out all their wacky flavors!) Based on your findings, what flavors do you think the Maples should sell and when?