10/22/18 Algebra 2

**Objective:**

**I can identify commonalities in a family of linear functions and will determine whether relationships in tables and situations are linear.**

Vocab:

Parameters, Variables, Family of functions

Questions you should be able to answer after today:

What do Linear relationships have in common?

What is the difference between a parameter and a variable?

1. SLOT
2. Check work
3. Shall we play a game?
4. Is it linear?

**Objective:**

**Students will recognize even and odd functions from their graphs and algebraically.**

Questions:

**What are the formal definitions of even and odd functions? How can you recognize an even (or odd) function from its graph?**

**From its table? From its equation? How is –f(x) different from f(–x)?**

10/22/18 Pre-Calc

1. SLOT
2. Finish up sorting
3. Notey-notes on Even and Odd functions
4. Practice

10/23/18 Algebra 2

**I can identify commonalities in a family of linear functions and will determine whether relationships in tables and situations are linear.**

Vocab:

Parameters, Variables, Family of functions

Questions you should be able to answer after today:

What do Linear relationships have in common?

What is the difference between a parameter and a variable?

1. SLOT
2. Complete, “Linear or Not?” With your table partner. Check it in with me.
3. Go to [student.desmos.com](https://student.desmos.com/?prepopulateCode=hjv572) and type in code HJV572.
4. Follow the directions on screen to complete the activity.
5. Homework worksheet.

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10/22/18 Pre-Calc

1. SLOT
2. Notey-notes on Even and Odd functions
3. Practice
4. Homework

10/24/18

Students will investigate a non-linear and linear function.

1. SLOT
2. Summary Statements (teams of 2). Use the functions I have given you instead of the one in the book. ( think about 4 views of a function, domain, range)
3. Homework  [Problems 1-112 through 1-113 and 1- 116 through 1-118](https://ebooks.cpm.org/bookdb.php?title=cca2&name=1.2.4&type=lesson#1-112)

**Objective:**

**Students will recognize even and odd functions from their graphs and algebraically.**

Questions:

10/22/18 Pre-Calc

1. SLOT
2. Entrance Ticket
3. Let’s Practice

10/25/18 Algebra 2

Students will investigate a non-linear and linear function.

1. **SLOT**
2. **5 minutes to prepare your poster.**
3. **Go over Rubric**
4. **Present, Listen, Reflect**
5. **OYO**
6. **Start Homework: Problems 1-112 through 1-113 and 1- 116 through 1-118 and read 2.1.1**

**10/25/18**

**Objective:** Students will identify the effect on the graph of replacing *f*(*x*) by *f*(*x*) + *k*, *k* *f*(*x*), *f*(*kx*), and *f*(*x* + *k*) for specific values of *k* (both positive and negative).

**Questions:**

1. What do we already know that will help us to complete the task?
2. How are these problems different from transformation problems we have done in the past?
3. What is the difference between the types of transformations in parts (c) and (d) of problem 2-30?

**Vocabulary:**

1. **SLOT**
2. **HW questions**
3. **Review Team Roles and Collaborative Learning Expectations**
4. **What do you remember about function transformation?**
5. **Problems**[**2-30**](https://ebooks.cpm.org/bookdb.php?title=pc3&name=2.1.3&type=lesson&#2-30)**and**[**2-31**](https://ebooks.cpm.org/bookdb.php?title=pc3&name=2.1.3&type=lesson&#2-31)

**Objectives:** Students will collect non-linear data, fit an equation to their data, and use their equation to make predictions.

Questions: What will the graph look like? Should I connect the data points? How can I find an equation that fits the data?

Vocab: Scatterplot, regression, line of best fit

1. SLOT
2. Review Collaborative Learning Expectations.
3. Determine the roles and responsibilities at your table. Write your names on the paper and place at the edge of your tables.
4. Facilitator reads all of question.