

CA State Standard. First, refer to teaching schedule for the year.  
All standards will be taught and mastered by state testing...

**Intro to FUNctions** — spell with capitals FUN. Points awarded for this punctuation.

*Functions 8.F Define, evaluate, and compare functions.*

1. *Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.*

**ENGAGE: Birthday Party:** Treats (at end), decor, party hats, poppers

Birthdays of students: Everyone only has one birthday. Bday twins?

Input, Domain, X: Students

Output, Range, Y: Birthdays.

Some students might share the same birthday, but no student has two birthdays.

Define function: A rule that assigns to each input exactly one output.

Questions?



**EXPLORE:** Function Machines: Use student/bdays first. Video, meat-o-morphosis: <https://www.youtube.com/watch?v=VUTXsPFx-qQ>. Discuss — Elbow or eyeball partner

**EXPLAIN:** Vocabulary: Picture dictionary entries. Domain/Range; input/output; Term and examples drawn. Teacher models functions explicitly. Group Practice as table groups.

Problems projected on the screen. One or two table groups come forward. Front board individual challenges: Five questions, five volunteers

Twist: Offer ordered pairs. Determine function.

**ELABORATE:** GAME: Kinesthetic: Pair up with your domain or range, or function. All students receive a card paired with another card. Students find each other. Pairs are posted on board. Sample explanations.

Not a function — — —>

Vertical Line Test

What is not a function? Desmos.com

**EVALUATE:** Assess throughout. Practice informally.

Formal Summative Assessment: Define a function.

Graph ordered pairs. Determine if functions. Create a function used in the real world. Create ordered pairs. Examples:

Hours of practice to points scored.

Hours of studying to points earned on a test.

Calories consumed to weight gained. Blah.

Years of college to salary earned

BDAY TREATS!

