

# UNIT 2 - LESSON PLANS

**Class** Algebra 1    **Topic** U4– Formalizing Relations and Functions    **Lesson** 6    **Of** 7

Students will:

**Objective**

- Be able to write the domain and range of relations.
- Be able to identify the relation as functions using mapping diagrams.
- Be able to use vertical line test to determine whether the relation is a function or not.

**“I Can” Statement**

I can identify whether a relation is a function or not.

**Common Core Standards**

[CCSS.MATH.CONTENT.HSF.IF.A.1](#)

Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If  $f$  is a function and  $x$  is an element of its domain, then  $f(x)$  denotes the output of  $f$  corresponding to the input  $x$ . The graph of  $f$  is the graph of the equation  $y = f(x)$ .

[CCSS.MATH.CONTENT.HSF.IF.B.5](#)

Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. *For example, if the function  $h(n)$  gives the number of person-hours it takes to assemble  $n$  engines in a factory, then the positive integers would be an appropriate domain for the function.\**

**Bell Work**

See 4-6 Bell Work

**Procedures**

1. Start and lead student discussion related to the bell work.
2. Distribute the Guided Notes
3. Present lesson or play a video lesson.

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4. Use an Online Activity if time permitted.

5. Distribute Lesson Assignment.

### Assessment

Bell Work 4-6

Assignment 4-6

Exit Quiz 4-6

### Additional Resources

See Online Activities