**Unit 1: Mathematical Terminology**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PER \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **LT** | **Learning Targets** | **CA Standard** | **Homework** | **Quiz** | **Unit Assessment** |
| **1A** | I can define the **complex numbers system** using **subsets, set notation,** and **interval notation.** | **PC 1.1.1** |  |  |  |
| **1B** | I can explain how the **elements** in the **real numbers system** and **imaginaries** connect to form the **standard form of a complex number** and where the elements fit or do not fit (**disjoint** sets) within the complex numbers system. | **PC 1.1.1** |  |  |  |
| **1C** | I can evaluate the connections between sets using appropriate **notation** (**set** versus **interval**; **union** versus **intersection**; **disjoint**). | **PC 1.1.1** |  |  |  |
| **1D** | I can justify **mathematical statements** using **mathematical** **properties** and I can explain the connection between using the **conjugate** and **multiplicative identity property** to simplify radical and imaginary expressions. | **PC 1.1.1** |  |  |  |
| **1E** | I can explain the **closure property** and how a set of numbers can be closed (under addition, subtraction, multiplication, division), using a **counterexample** to justify my reasoning. | **PC 1.1.1** |  |  |  |
| **1F** | I can simplify rational and radical **expressions with exponents** and **complex rational (rational exponents) expressions**, using **mathematical properties** (distributive, additive/multiplicative inverse, additive/multiplicative identity, exponent rules, etc.) | **PC 1.1.1** |  |  |  |