Use the following spaces to record any information about key topics that you find useful.

⇒ Set:

Definition:

Some examples:

What distinguishes a set from other collections, like a list?

⇒ Set notation:

Roster notation:

Set builder notation:

Venn diagrams:

$\Rightarrow$ Some notable sets:

$\varnothing$:

$\mathbb{Z}$:

$\mathbb{N}$:

$\mathbb{Q}$:

$\mathbb{R}$:

U:

$\Rightarrow$ Cardinality:

Definition:

Notation:

Some examples of *finite sets*:

Some examples of *infinite sets*:

$\Rightarrow$ Subsets:

    Definition:

    Some examples of subset relationships:

    Relationship to set equality:

$\Rightarrow$ Proper subsets:

    Definition:

    Some examples of proper subset relationships:

$\Rightarrow$ Power sets:

    Definition:

    Notation:

    Some examples:

    Given the *cardinality* of a set, what is the *cardinality* of its power set?