

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:

⇒ Some notable sets:

$\emptyset$ :

$\mathbb{Z}$ :

$\mathbb{N}$ :

$\mathbb{Q}$ :

$\mathbb{R}$ :

$\mathbb{U}$ :

⇒ Cardinality:

Definition:

Some examples of *finite sets*:

Some examples of *infinite sets*:

⇒ Subsets:

Definition:

Some examples of subset relationships:

Relationship to set equality:

⇒ Proper subsets:

Definition:

Some examples of proper subset relationships:

⇒ Power sets:

Definition:

Some examples:

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