



ALGEBRA I HONORS

iModule: Week 1: Set Theory

Focus: **MA.912.D.7.1** Perform set operations such as union and intersection, complement, and cross product

MA.912.D.7.2 Use Venn diagrams to explore relationships and patterns, and to make arguments about relationships between sets.

Essential Question: How can we use Venn diagrams to visualize the union, intersection, complement, and cross products for two or more sets?

Start Date: August 20, 2013

Deadline: August 23, 2013

Prerequisite:

- Watch the 4 **short** videos on set theory. Make sure to watch all 4, *What is a Set?*, *More Set Operations*, *Venn Diagrams Part 1*, and *Venn Diagram 2*. These videos can all be found as an attachment to a post on edmodo, or you can also find them in the iModule 1 Folder.

Activities to be completed: See instruction directions below and if you are having any issues completing any of these assignments please make sure to refer back to the 4 videos,

- Complete **Set Theory Extra Practice Problems** from the iModule 1 Folder. Complete the problems neatly in your composition notebook and make sure to have your name on your paper (Upper Right). Take a photo of your work and upload to the assignment link on Edmodo.
- Complete the **Find the Error Venn Diagrams and Sets** found in the iModule 1 Folder on a separate sheet of paper. Turn in your paper to your assigned class bin. Make sure to have your name, period, and have complete sentences for your answers.
- Complete the **Unions and Intersection Quiz** that aligns with the Unions and Intersection Activity located in the iModule 1 folder. For example, as you complete #1 on the Union and Intersection Activity Worksheet, you will place your answer in corresponding #1 on the edmodo quiz. Hint*

There is a helpful Venn diagram of number sets located in the iModule 1 Folder, if you need additional assistance feel free to research number sets on google.

- Complete the **NBA Finals Question Worksheet** and follow the guidelines provided from the Sports Casting for the NBA Finals project pdf found in the iModule 1 Folder. Include Microsoft Word document and Chart paper visual.
- Complete the **Sports Casting for the NBA Finals project** with your group and upload to the assignment link on Edmodo. The guidelines for this project can be found in the Sports Casting for the NBA Finals pdf found in the iModule 1 Folder. Hint: You don't have to make a video, there are other helpful websites in which you can create animations such as goanimate.com and voki.com in which you can create dialogue to complete this project.

Assessment: See instruction directions below

- Project Based Assessment – Sports Casting of the NBA Finals
 - a. Follows Rubric = 100 points possible

Follow Up:

- Watch the 4 **long** videos on set theory. Take notes from the videos in your composition notebook or on the **Set Theory and Venn Diagram Study Guide** located in the iModule folder.