

Name \_\_\_\_\_

## Make-Your-Base Project

For this project, you will report on a different number system, but not Base 3 or Base 10. Your project will have a visual aid and a written portion. The written portion will be attached to the display.

Assignment	Due Date
Visual Aid	Wednesday
Written Portion	Friday

### ***Visual Aid Requirements***

- Your name
- Title including the name of your base (Example: Base Eight) and a nickname you can make up.
- List of all digits needed for your base.
- Visual display of a unit, mat, etc. up to a mat-mat-mat (within reason—see Mr. G if a mat-mat-mat seems unreasonable for your base), *with values and titles for each piece*.
- Chart showing at least three numbers
  - Expressed in Base 10
  - Expressed in your base
  - Shown visually with your pieces
  - Explanation of how the pieces correspond to the number in your base

### ***Written Portion Requirements***

- Your name
- Title including your base name and nickname
- Written Explanations:
  - Explanation of “trading in.” for your base and how it is used in adding and subtracting.
    - Example of trading in, shown step-by-step
  - Instructions for how to add in your base
    - Example of adding, shown step-by-step
  - Instructions for how to subtract in your base
    - Example of subtracting, shown step-by-step
- BONUS:
  - Applications of your base in real life
  - Instructions for how to multiply and divide in your base, with examples shown

Name \_\_\_\_\_

## Make-Your-Base Rubric

<b>Criteria</b>	<b>Beginning</b>	<b>Approaching</b>	<b>Meeting</b>	<b>Exceeding</b>
<b>Completeness</b>	Several days late. Several sections from assignment are missing.	One day late. One or two sections from assignment are missing.	On-time. Includes every section from assignment.	On-time. Includes extra sections not required.
<b>Explanations and Directions</b>	Explanations do not make sense. Directions are incorrect or missing. Examples are missing or are incorrect.	Explanations are a little confusing. Directions are slightly incorrect. Examples are missing steps or confusing.	Explanations are clear and concise. Directions are correct and make sense. Examples are step-by-step and clear.	Meeting plus: Explanations and directions are extremely clear and thorough.
<b>Visual Representation</b>	Manipulatives are missing or incorrect. Digits are missing or incorrect. Chart is missing or incorrect.	Manipulatives are slightly incorrect or not labeled. Some digits are missing. Chart is slightly incomplete or a little confusing.	Manipulatives are correct and clearly labeled. Digits are correct. Chart is complete and clearly explained.	Meeting plus: Chart clearly shows how the manipulatives relate to the numbers in your base.
<b>Neatness and Writing</b>	Writing is not in complete sentences or extremely unclear. Visual aid is sloppy. Few or no mathematical terms are used appropriately.	Writing is slightly unclear or difficult to understand. Visual aid is a little sloppy or not in color Some mathematical terms are either missing or used inappropriately.	Writing is clear and concise in complete sentences. Visual aid is neat. Mathematical terms are used appropriately.	Writing is easy to read and flows nicely. Visual aid is colorful and appealing to the eye. Mathematical terms are used appropriately and explained in great detail.