

The Variable Machine

On a strip of notebook paper, write the numbers 0-25, one numbers in each space. Wrap the strip of paper into a circle, and tape the ends together. On a second strip of notebook paper, write the letters A-Z, one letter per space. Make a circle of this one, and tape it's ends together as well.

- 1. With A on zero, find the value of your first name. To do this, add the numerical value of each letter of your name.
- 2. Which name has a higher value your first or last name?
- 3. Think of a famous person whose name (first & last) would have a higher value than anyone sitting at this station now.
- 4. Turn your top ring so that A is now worth 9. Now which of your names has a higher total value?
- 5. What value does A need to be so that your first name has the highest possible value?
- 6. If D = 20, translate these numbers into an expression:

17,2,23,21,18,8,17 25,9 22,11,4

- 7. Translate any messages left behind by the previous group.
- 8. Leave a message for the next group to translate. Make sure to identify the value of one letter.