## Workshop - Draw My Name

We will use this table where we will join coordinates to the letters of the alphabet. You can make your own table for your alphabet.
Serbian Latin

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | B | C | D | E | F | G | H | I | J |
| K | L | M | N | O | P | R | S | T | U |
| V | Z | $\bar{Z}$ | $\dot{C}$ | $\dot{C}$ | $\dot{S}$ | $\mathrm{Dž}$ | Nj | Lj | $Ð$ |

Serbian cirilic

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | $\mathrm{\zeta}$ | B | Г | Д | 万 | E | $Ж$ | 3 | И |
| J | K | $Л$ | Љ | M | H | Њ | 0 | $П$ | P |
| C | T | h | y | $\Phi$ | X | Ц | 4 | $Џ$ | $Ш$ |

English alphabet

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | B | C | D | E | F | G | H | I | J |
| K | L | M | N | O | P | Q | R | S | T |
| U | V | W | X | Y | Z |  |  |  |  |

Then we put together coordinates of the name, draw coordinate and get some shapes that you can paint and get some interesting and nice pictures.

You will have as many points as your name has letters.
Example: Steps for name Jan. Coordinates $\mathrm{J}=10, \mathrm{~A}=1, \mathrm{~N}=4$. Make points by combining two adjacent letters. At the end combine last and first letter. Now we have points: (J,A) (A,N) (N,J)

Step 1. Now you have first point with coordinates ( $J$; $A$ ), second ( $A$; $N$ ), third ( $N$; J).

| Coordinates of point | $\mathbf{x}$ | $\mathbf{y}$ | 1. step <br> $(\mathbf{x}, \mathbf{y})$ |  |
| :---: | :---: | :---: | :---: | :---: |
| $(\mathbf{J} ; \mathbf{A})$ | 10 | 1 |  |  |
| $(\mathbf{A} ; \mathbf{N})$ | 1 | 4 |  |  |
| $(\mathbf{N} ; \mathbf{J})$ | 4 | 10 |  |  |

Step 2. The coordinate y from Step 1 is now the coordinate $x$. Now you have (A ; J), (N;A), (J ; N). Change y coordinate to 10-y.

| Coordinates of point | x | $y$ | $\begin{gathered} \text { 2. step } \\ (y, 10-x) \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: |
| ( $\mathrm{F} ; 10-\mathrm{J}$ ) | 1 | 0 |  | N |
| ( $\mathrm{N} ; 10-\mathrm{A}$ ) | 4 | 9 |  | N |
| ( $\mathrm{C} ; 10-\mathrm{N}$ ) | 10 | 6 |  |  |

Step 3. The coordinate y from Step 2 is now the coordinate $x$. Now you have (10-J ; A), (10-A ; N), (10-N ; J). Again change y coordinate to $10-\mathrm{y}$.

| Coordinates of point | x | y | 3. step <br> $(10-\mathrm{x}, 10-\mathrm{y})$ |  |
| :---: | :--- | :--- | :--- | :--- |
| $(10-\mathrm{J} ; 10-\mathrm{A})$ | 0 | 9 |  |  |
| $(10-\mathrm{A} ; 10-\mathrm{N})$ | 9 | 6 |  |  |
| $(10-\mathrm{N} ; 10-\mathrm{J})$ | 6 | 0 |  |  |

Step 4. The coordinate y from Step 3 is now the coordinate x . For y coordinate put x coordinate from Step 1.


In first step students are recognizing the shape of the name. In this example it is triangle.
Also they notice that in every step they get the same shape.
Students are able to recognizing in the next steps that this shape (triangle etc) is rotating around some center of picture.

Use the same color to paint equal shapes. This is picture we get from name JAN.


