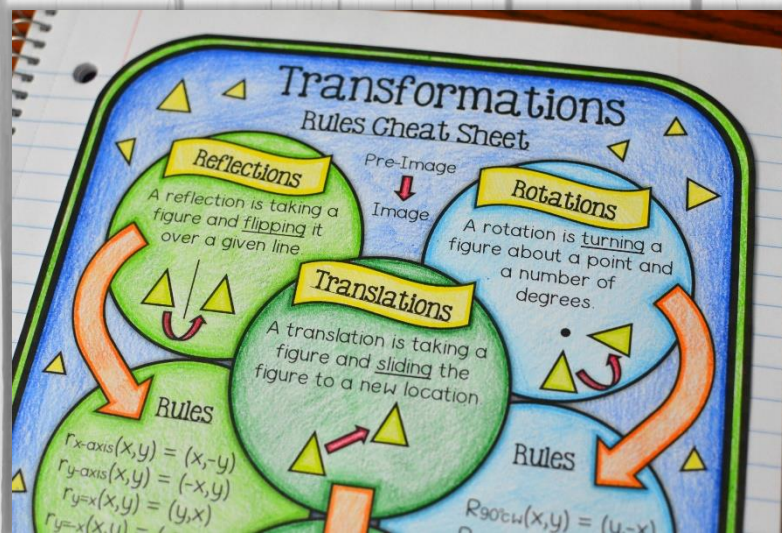


Cheat Sheet

Transformations



(Reflections, Rotations,
Dilations, and Translations)

Rules

Created By:

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Thank you!!!

Teacher Notes

- If you want to make a class set, I would recommend laminating the cheat sheet so that you can use it year after year.
- You could also decide to print a cheat sheet for each student and have them glue it into their interactive notebooks.
- If you give one to each student, you could have them color the cheat sheet (If time is limited, I would skip or have students color at home).

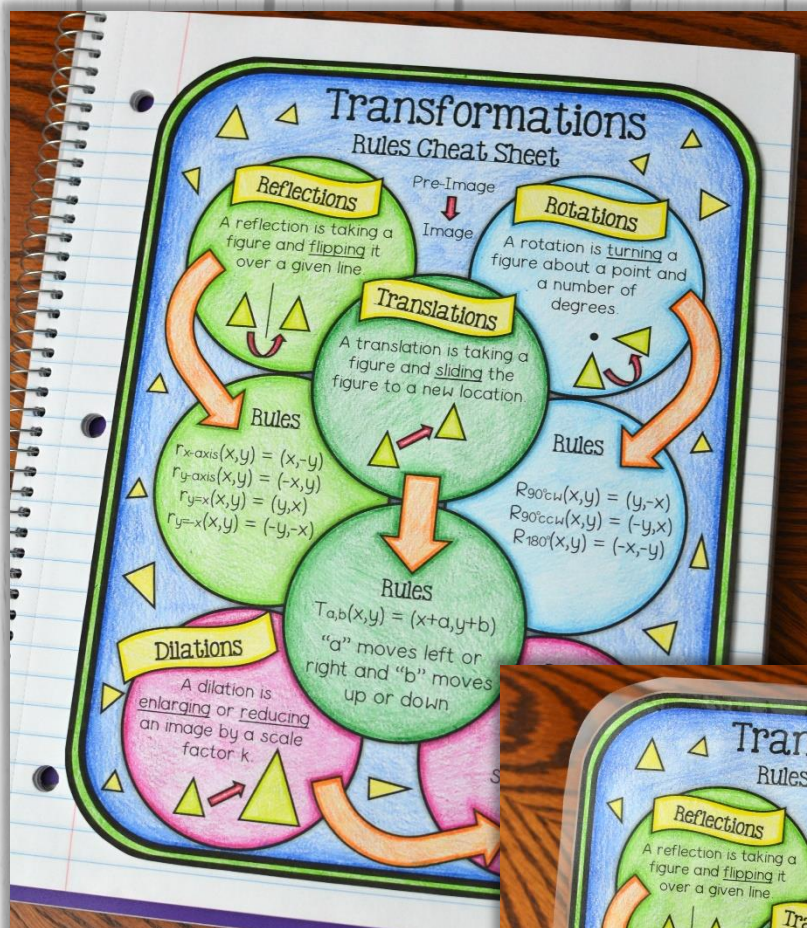
Please let me know if you have any questions about the cheat sheet!

You can email me at
mathindemand@hotmail.com.



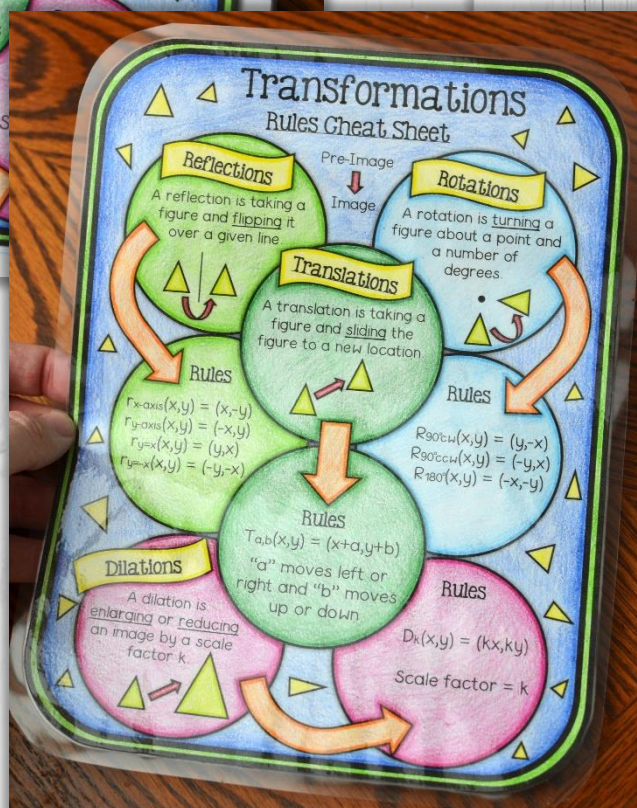
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A Few Options



Works Great as a Cheat Sheet!

Glue in Notebooks or Laminate!

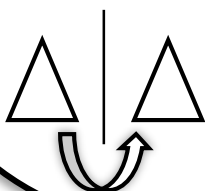


Transformations

Rules Cheat Sheet

Reflections

A reflection is taking a figure and flipping it over a given line.



Rules

$$r_{x\text{-axis}}(x,y) = (x,-y)$$

$$r_{y\text{-axis}}(x,y) = (-x,y)$$

$$r_{y=x}(x,y) = (y,x)$$

$$r_{y=-x}(x,y) = (-y,-x)$$

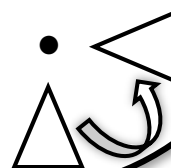
Pre-Image



Image

Rotations

A rotation is turning a figure about a point and a number of degrees.



Rules

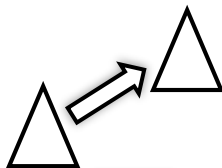
$$R_{90^\circ\text{cw}}(x,y) = (y,-x)$$

$$R_{90^\circ\text{ccw}}(x,y) = (-y,x)$$

$$R_{180^\circ}(x,y) = (-x,-y)$$

Translations

A translation is taking a figure and sliding the figure to a new location.



Rules

$$T_{a,b}(x,y) = (x+a,y+b)$$

"a" moves left or right and "b" moves up or down

Dilations

A dilation is enlarging or reducing an image by a scale factor k.



Rules

$$D_k(x,y) = (kx,ky)$$

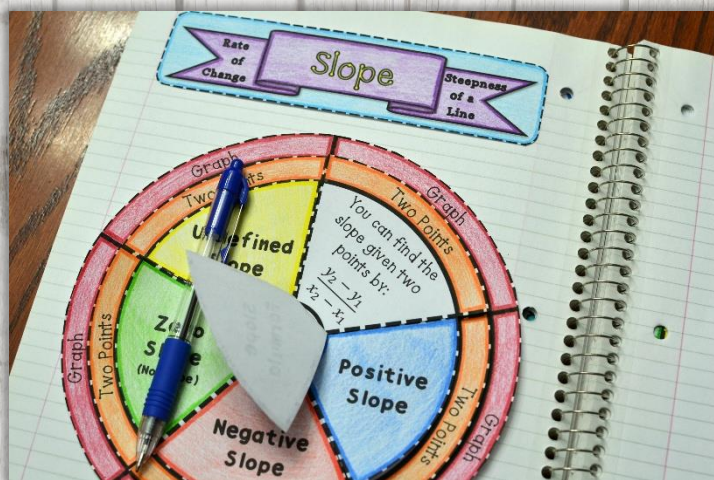
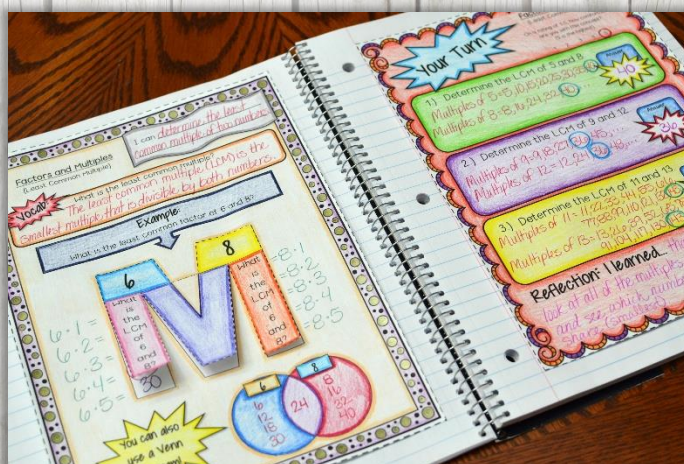
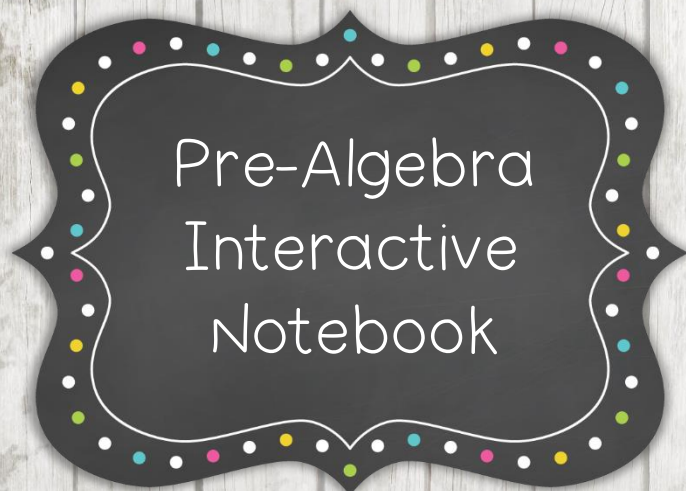
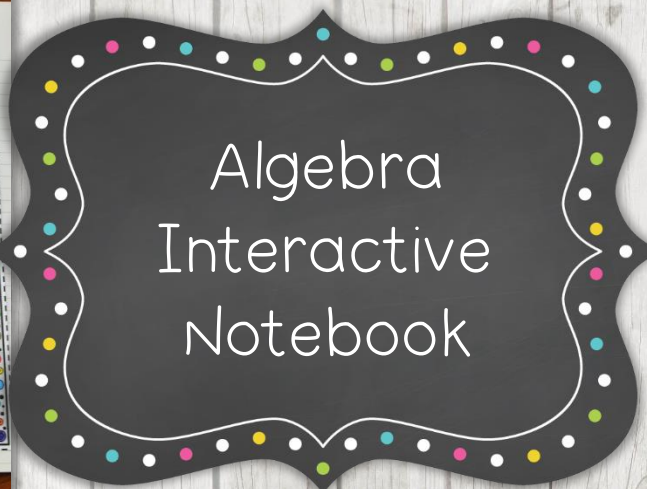
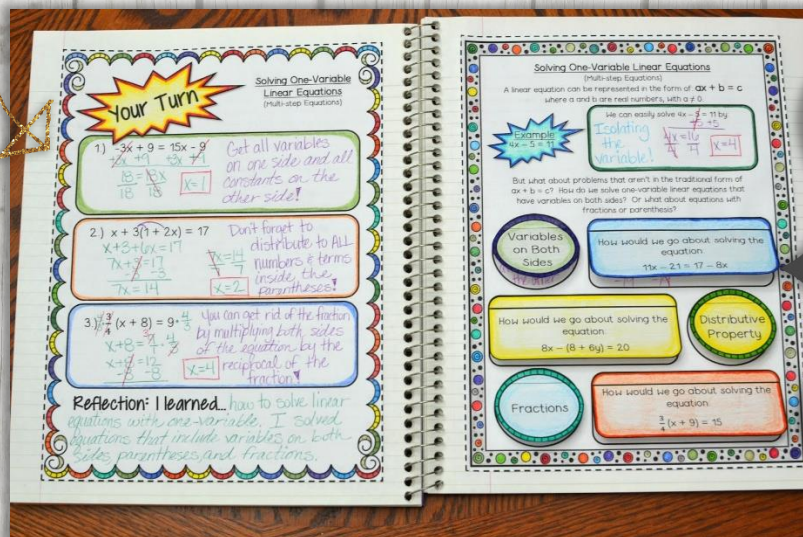
Scale factor = k

If you like this cheat sheet then please check out my other resources!



(Click on the pictures)

You'll love them!!!



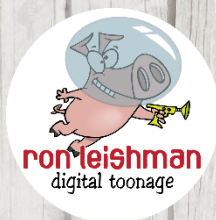
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