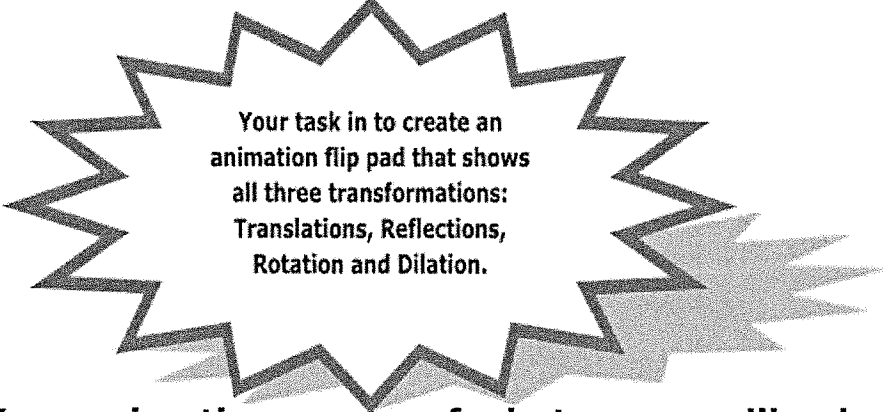


Create an Animation

How can you use Transformational Geometry to create an animation?



Your task is to create an animation flip pad that shows all three transformations: Translations, Reflections, Rotation and Dilation.

- ✓ Your animation can be of whatever you like, but your main objective must be to show an object moving over a coordinate plane.
- ✓ Draw each step in your animation on a separate coordinate plane, on a new piece of paper.
- ✓ Make sure each plane is identical so that when you put all of the papers together, the animation will look the way you plan.
- ✓ Make a "title page" for your flip pad.
- ✓ Put all 4 transformations into one flip pad
- ✓ You can make as a flip book or a slide show
- ✓ Final Project Due _____

Carefully plan where to draw each coordinate plane on the graph paper –You may want to make a demo first.

More sheets make a more effective animation.

Make sure that you staple all of your sheets IN ORDER.

You can keep the animation simple – the more details, the more difficult it will be to keep the animation consistent.

Be creative and have fun!

TIPS

Flip Pad Animation Expectations

Choose 3 key points of your original figure.

You must:

Expectation	Yes (One mark for each check)	No	Due Date
Adequate Plan approved by the teacher			
-Include at least three translations			
-Describe the rule for each image: how many units horizontally and vertically the shape was moved (x3)			
-List the coordinates of each translated image			_____
-Include at least three reflections			
-Identify the lines of reflection			
-List the coordinates of each reflected image			_____
-Include at least three rotations			
Describe the rule of each rotation (Use different angle measures/directions)			
List the coordinates of each rotated image			_____
Include at least three dilations			
Describe the rule of each dilation (Use different scale factors)			_____
List the coordinates of each dilated image			_____
-Include a Title Page/Cover			
-Color your animation			
-Staple your flip pad with the drawings IN ORDER			

Comments: _____

	4	3	2	1
Visuals	All 12 transformations are represented accurately on the grid.	9-11 transformations are represented accurately on the grid.	6-8 transformations are represented accurately on the grid.	Fewer than 6 transformations are represented accurately on the grid.
Description	All 12 transformations are described accurately.	9-11 transformations are described accurately.	6-8 transformations are described accurately.	Fewer than 6 transformations are described accurately.
Coordinates	100-90% of coordinates are listed accurately.	75-89% of coordinates are listed accurately.	50-74% of coordinates are listed accurately.	Less than 50% of coordinates are listed accurately.
Attention to Detail	Animation tells a cohesive story neatly and with proper coloring.	75-89% of pages work together to tell a cohesive story.	50-74% of pages work together to tell a cohesive story.	Animations are seemingly random and difficult to follow.

Total: _____ / 16

Original 3 Key Points: _____

Transformation Type	Description/Rule	Image Coordinates
Translations		
Reflections		
Rotations		
Dilations		