

TRANSFORMATION

Common Core Standards – G-CO 5: Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, e.g., graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.

Chorus x2

Reflect, rotation, and translation

Makes up transformation

Change in the size or shape

Or position of any kind of shape, yeah

Verse 1

Let's do reflect, yo it really mean flip

Let's flip a shape across a line ya'll don't trip

Ain't no stressing, answer to the question

The name of the line is the line of reflection

Reflect a triangle along the X-axis, it's real simple

End points of that triangle (1, 1) (1, 4) (5, 1), let's go

Let's reflect, end point (1, 1) becomes (1, -1)

End point (1, 4) is now (1, -4)

All we got left in store, just flip (5, 1)

That end point becomes end point (5, -1)

Not just X, do the same with Y-axis

It just takes practice, yeah

Chorus x2

Verse 2

Now rotate, or rotation

Which really means turn, let's stop playin'

A transformation about point P

And it's called center of rotation

Each point and image

Are the same distance from point P

If you don't believe what I say

Let's draw so you can see, let's go

Triangle A-B-C, endpoints -1 and 3

And (-1, 1) and (1, 2), let's see what it comes to

When you rotate 90 degrees

Let's find endpoints for A, B, and C, prime

(-3, -1) A, (-1, -1) B, (-2, 1) C

Chorus x2

Verse 3

Now translation, which means slide

Let's move a shape, it's easy to apply

Do it in an instant, no stressing

All points move the same distance and direction

Triangle A-B-C

Point A is (2, -3), Point B (0, -1), Point C (-1, -4)

Let's go. Let's slide each point by (-3, 4)

We gonna take 3 from the X, add 4 to the Y

For each point and that be the slide

A Prime now (-1, 1), C Prime (-4, 0)

B Prime (-3, 3)

Wanna learn how to slide just follow me

Chorus x2

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