

Transformations Activity Challenge Colouring Page

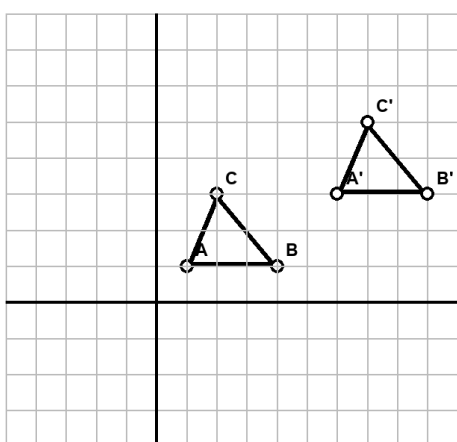
KS3 / Year 7 - Mathematics

Colour the four coordinate-grid transformations and record each image of A(1,1), B(4,1), C(2,3).

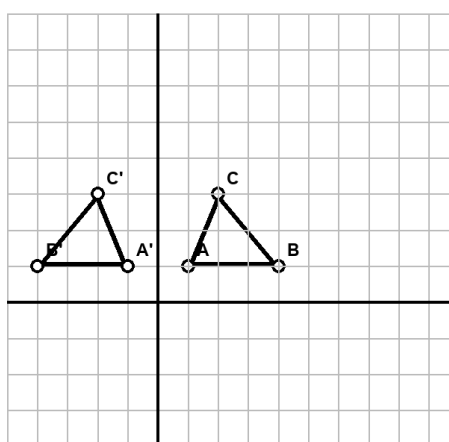
TRANSFORMATIONS

Trace each image of triangle ABC and colour matching vertices

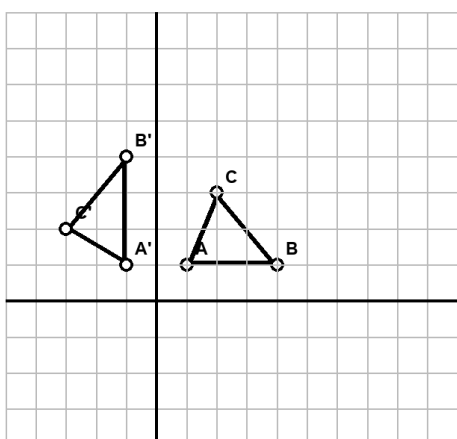
TRANSLATE BY (5, 2)



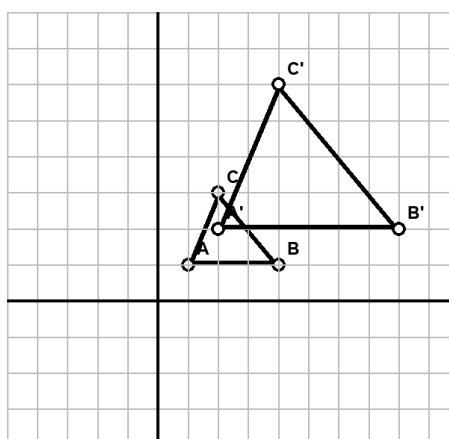
REFLECT IN THE y-AXIS



ROTATE 90 DEGREES ANTICLOCKWISE



ENLARGE, SCALE FACTOR 2, CENTRE (0, 0)



Transformations Activity Challenge Colouring Page

KS3 / Year 7 - Mathematics

Colour the four coordinate-grid transformations and record each image of A(1,1), B(4,1), C(2,3).

Parent & Teacher Guidance

Curriculum focus

Topic: Transformations. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: DfE national curriculum programme of study for key stage 3.

Before you begin

Review the picture together and ask the learner what they already notice about Transformations. Read the activity aloud, explain unfamiliar vocabulary, and agree which details need special attention.

Solo activity

The learner can complete the colouring independently, then use the finished page to explain three details linked to Transformations. Encourage accurate colour choices where they carry meaning, but allow creative choices elsewhere.

Group activity

Give pairs or small groups different areas to inspect. Ask them to agree on evidence before colouring, compare their findings, and present one curriculum fact to the class. Finish with a whole-group check against the guidance below.

Questions to guide discussion

What evidence can you see? Which feature is most important and why? How does one part connect to another? What new fact about Transformations can you explain using the picture?

Answers and checking

Translation by (5,2): (6,3), (9,3), (7,5). Reflection in the y-axis: (-1,1), (-4,1), (-2,3). Rotation 90 degrees anticlockwise about the origin: (-1,1), (-1,4), (-3,2). Enlargement scale factor 2 about (0,0): (2,2), (8,2), (4,6).

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
