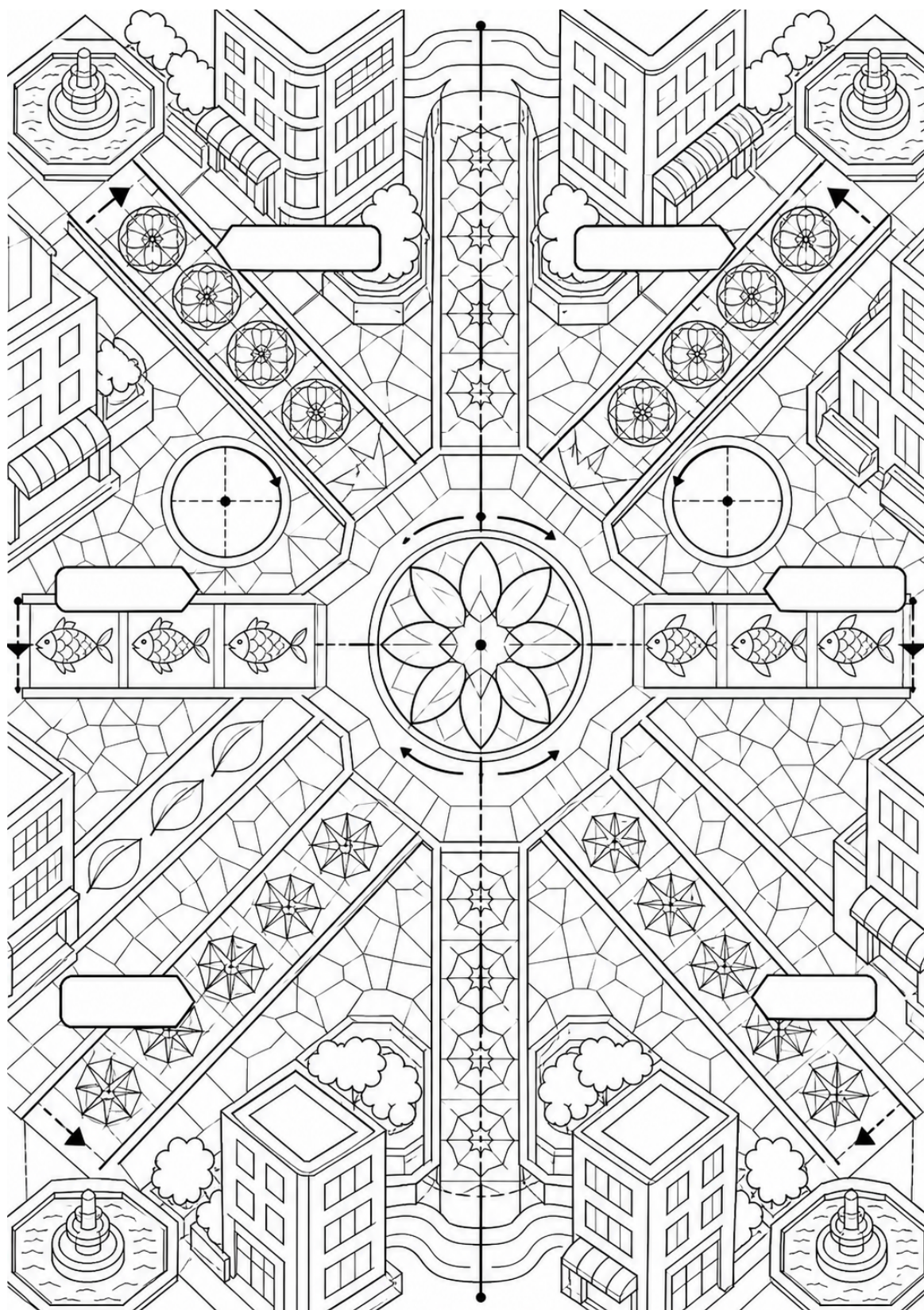


Transformations: A Geometric City Plaza

KS3 / Year 7 - Mathematics

Identify examples of translation, reflection, rotation and enlargement. Mark vectors, mirror lines, centres/angles and scale factors on four motifs, then describe one in



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Identify examples of translation, reflection, rotation and enlargement. Mark vectors, mirror lines, centres/angles and scale factors on four motifs, then describe one in your own words.

Parent & Teacher Guidance

Curriculum focus

Topic: Transformations. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: KS3 Mathematics: identify and construct congruent shapes using rotation, reflection and translation, and use scale factors and similarity..

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 preserves size, shape and orientation; reflection preserves size/shape but reverses orientation across a mirror line; rotation preserves size/shape around a centre through an angle; enlargement preserves shape and angles while lengths scale from a centre. Precise values depend on the learner's selected motifs.

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
