RICH MATHEMATICAL TASK BOOKLET



GEOMETRY

YEAR 1

Copy Masters

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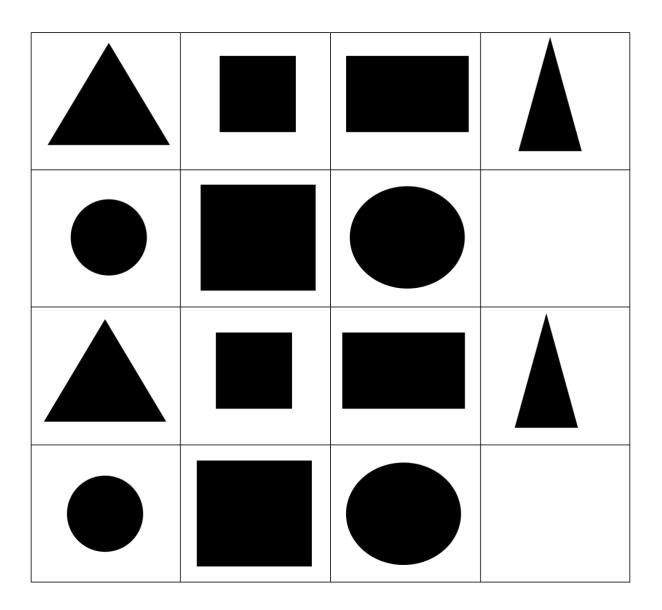
Task 1

Sort these shapes into different groups.

What do you notice?

How are the shapes the same?

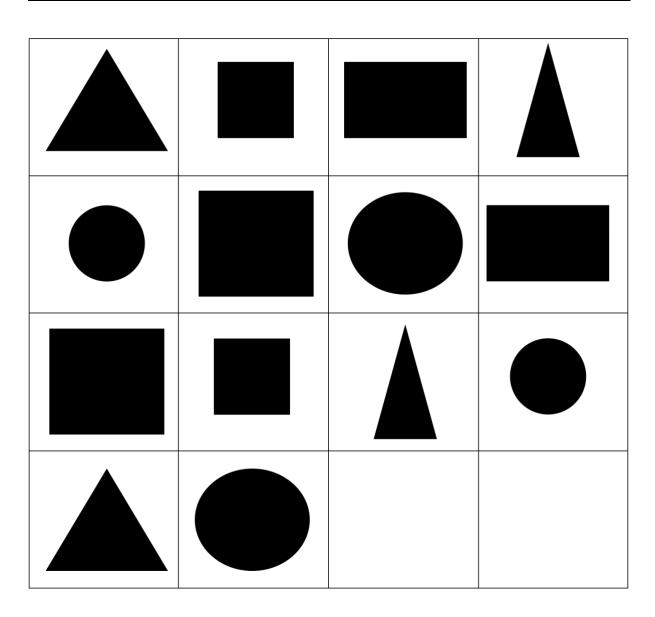
How are the shapes different?



Task 1 (independent)

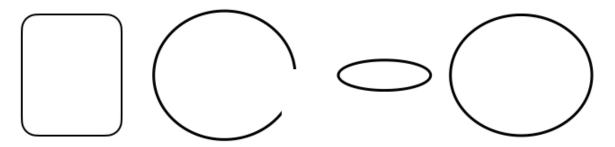
Find the matching shapes and name the shapes.

Triangle	Square	Rectangle	Circle
0	1	0	



Task 2 – Starter Shapes

Starter shapes:



Task 2

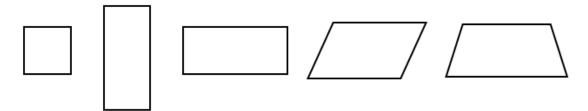
Is this shape a rectangle? Why, why not?

Is this shape a triangle? Why, why not?

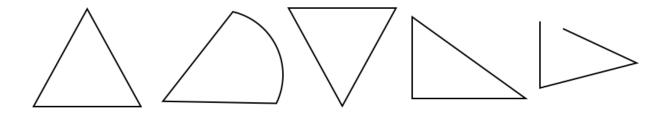
Task 2 – shapes to show students

Note: discuss each shape one at a time.

Rectangles

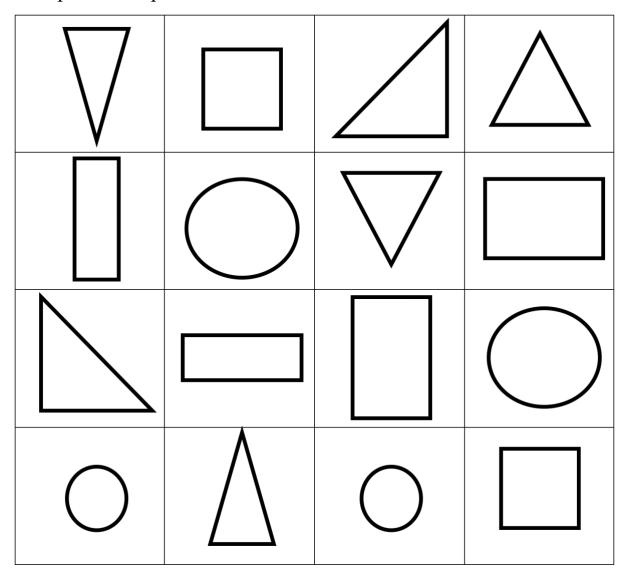


Triangles



Task 2 (independent)

Group these shapes - what is the same what is different?



Task 3



Find these shapes in our classroom. Find these shapes in our school.

Classroom	School

Task 3 (independent)

Does it roll?

Test out these objects to see if these objects roll or stand still. What do you notice?

Task 4

What do you notice about the shape of these different things?

Sort them into groups which you think are the same.

Sort them into groups which you think are different.

Task 4 (independent)

Sort the objects into sets.

How are they the same?

How are they different?

Draw pictures of each different shape.

Choose a new set of objects and repeat the activity.

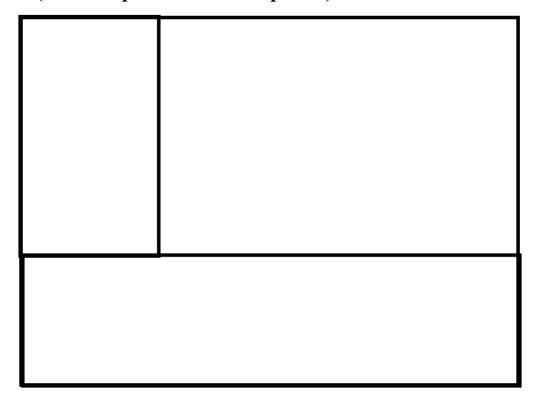
Task 5

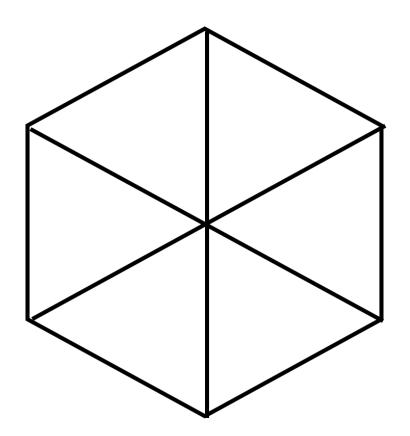
Choose a big shape.

What smaller shape will make the bigger shape?

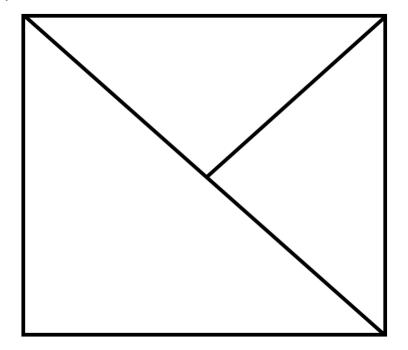
Use the smaller shapes to check whether they will make the bigger shape.

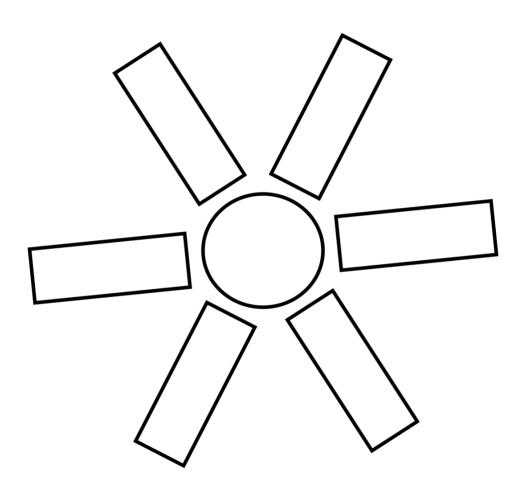
Task 5 (and independent task 5 options)



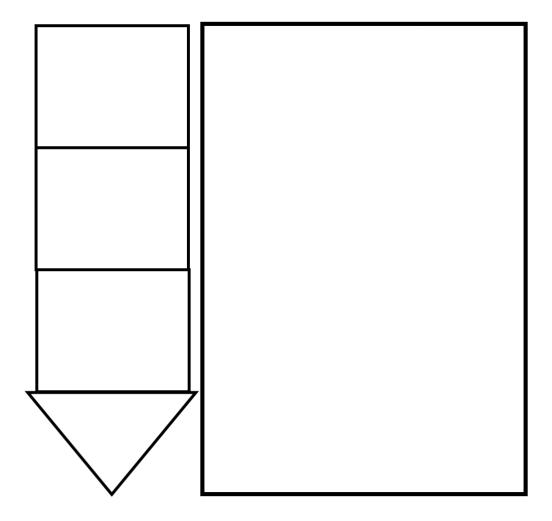


Year 1 Geometry





Year 1 Geometry



Task 5 (independent)

Choose a big shape.

What smaller shape will make the bigger shape?

Use the smaller shapes to check whether they will make the bigger shape.

Task 6

Make an animal with the pattern blocks.

Copy the animal so that you have a pair.

Describe the shapes that you used for each part of the animal.

Draw the animal that you made with the pattern blocks.

Task 6 (independent)

Make a house with the pattern blocks.

Copy the house so that you have a pair.

Describe the shapes that you used for each part of the house.

Draw the house that you made with the pattern blocks.

Make a flower with the pattern blocks.

Copy the flower so that you have a pair.

Describe the shapes that you used for each part of the flower.

Draw the flower that you made with the pattern blocks.

Make a spaceship with the pattern blocks.

Copy the spaceship so that you have a pair.

Describe the shapes that you used for each part of the spaceship.

Draw the spaceship that you made with the pattern blocks.

Task '	7
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Look a	at the	shape.
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Copy the new shape. What do you notice?

Look at the shape.

Copy the new shape. What do you notice?

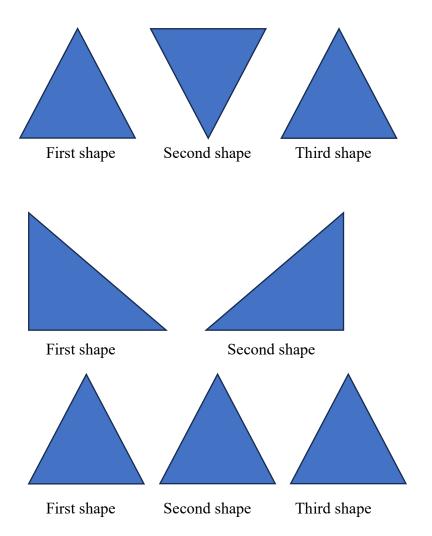
Look at the shape.

Copy the new shape. What do you notice?

Draw your own shape.

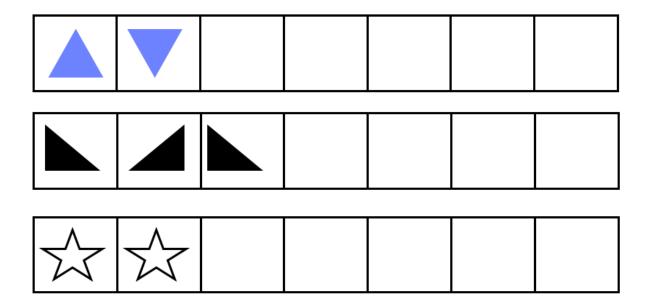
Transform your shape.

Task 7 (teacher shapes – show one at a time or model using physical shapes)



Task 7 (independent)

Continue the transformations on these shapes.

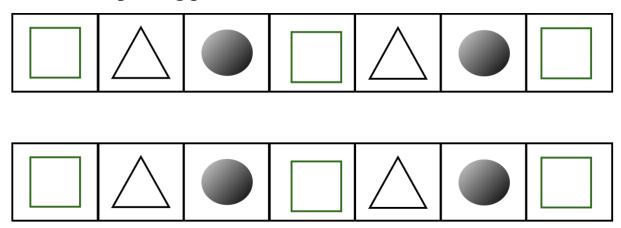


Task 8

Use the two strips of the same repeating pattern to find out how many times you can slide one strip along the length of the other so that it matches in different places?

Now make your own simple repeating pattern on a strip of paper. Now imagine you have another identical strip. Draw what the same repeating pattern would look like alongside the first repeating pattern you drew.

Task 8 – repeating pattern



Blank strip



Task 8 (independent)

Create your own pattern strips.

Include shapes that slide, turn and flip.

Task 9

Follow the instructions to move around the classroom.

What do you notice about how you have placed your counters?

What about when you changed direction?

Task 9 grid

Task 9 (independent)

Create different pathways for a robot to move around the classroom.

Work with a buddy and test out whether your pathways work.

Task 10

Give your buddy instructions to move around the classroom.

Represent your pathway.

Task 10 (independent)

Work together with a buddy playing the robot game. Give directions to each other of turns you want them to make.

- 1. Walk 3 steps forward → and then 2 steps backwards ←
- 2. Walk 1 step forward → and then 2 steps backwards ←
- 3. Walk 3 steps backwards ← and then 1 step forwards ← →
- 4. Walk 3 steps backwards ← and then 4 steps forwards ←
- 5. Walk 4 steps forwards → and then 4 steps backwards ←

What do you notice?

Task 11

Place an object for another group to find.

With your partner, represent a pathway/instructions for another group to follow.

Make changes to your instructions if needed and try again!

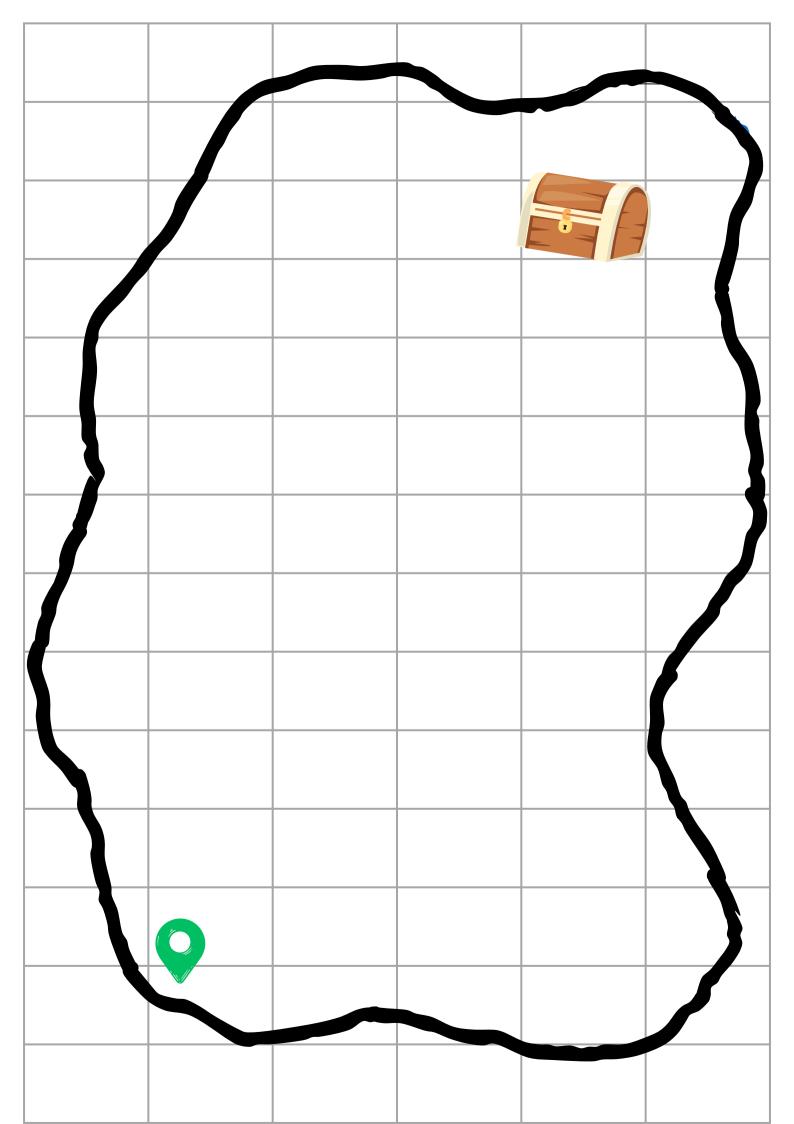
Task 11 (Independent Task)

Give instructions for your partner to find an object.

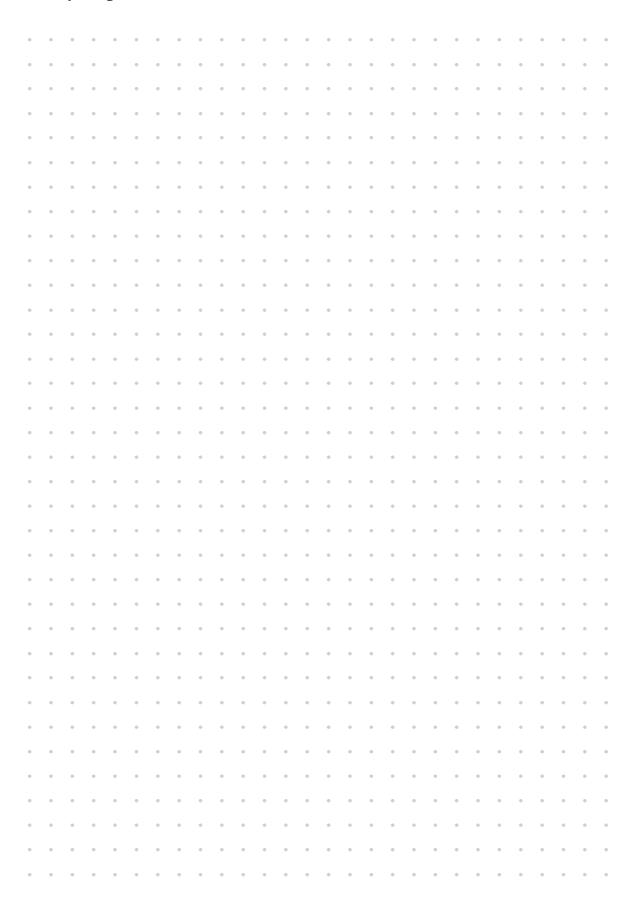
Task 12

You are pirates!

Give instructions for your pirate crew to find the treasure.



Dotty Paper



Squared Paper

