



Geometry



Copyright © 2009 3P Learning. All rights reserved.

First edition printed 2009 in Australia.

A catalogue record for this book is available from 3P Learning Ltd.

ISBN 978-1-921860-02-7

Ownership of content The materials in this resource, including without limitation all information, text, graphics, advertisements, names, logos and trade marks (Content) are protected by copyright, trade mark and other intellectual property laws unless expressly indicated otherwise.

You must not modify, copy, reproduce, republish or distribute this Content in any way except as expressly provided for in these General Conditions or with our express prior written consent.

Copyright Copyright in this resource is owned or licensed by us. Other than for the purposes of, and subject to the conditions prescribed under, the Copyright Act 1968 (Cth) and similar legislation which applies in your location, and except as expressly authorised by these General Conditions, you may not in any form or by any means: adapt, reproduce, store, distribute, print, display, perform, publish or create derivative works from any part of this resource; or commercialise any information, products or services obtained from any part of this resource.

Where copyright legislation in a location includes a remunerated scheme to permit educational institutions to copy or print any part of the resource, we will claim for remuneration under that scheme where worksheets are printed or photocopied by teachers for use by students, and where teachers direct students to print or photocopy worksheets for use by students at school. A worksheet is a page of learning, designed for a student to write on using an ink pen or pencil. This may lead to an increase in the fees for educational institutions to participate in the relevant scheme.

Published 3P Learning Ltd

For more copies of this book, contact us at: www.3plearning.com/contact

Designed 3P Learning Ltd

Although every precaution has been taken in the preparation of this book, the publisher and authors assume no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of this information contained herein.

Series A – Geometry Contents Topic 1 - 2D space (pp. 1-14) Date completed lines and curves / / • closed shapes, open lines_____ / / • matching shapes with everyday objects ______ / / circles ______ / / • squares_____ / / • rectangles_____ / / • triangles______ / / properties / / explore ______ / / Topic 2 – 3D space (pp. 15–22) language / / • everyday objects _____ / / explore ______ / / Topic 3 – Position (pp. 23–28) language ______ / / directions ______ / / Series Author: **Rachel Flenley** Copyright © 🌔 3P Learning

2D space – lines and curves



Draw 5 different straight lines. Draw 5 different curves.

straight lines			

curves	







1

On a big piece of paper draw 3 straight lines and 3 curves. Swap your paper with a partner's and draw more lines and curves to turn them into pictures.



2D space – closed shapes, open lines





Draw either a line or a shape for your partner. Ask your partner, 'Line or shape?' Give them a counter if they are right. Swap. Play until you both have 5 counters.

A D SERIES TOPIC

2D space – matching shapes with everyday objects

1 Colour the matching shape.









1 DEE Say, trace and draw.





Colour all the circles red.











3

Look at the black square.

We have put squares around it to make a bigger square.



Make this yourself using square blocks. Now, can you make it bigger again? Can you keep going? How big can you make your square?





3 Draw a triangle below and turn it into your own sign. Share your sign with your class.



2D space – properties





1 What shapes can you see? Colour them.





Draw your own shape picture using $\triangle \bigcirc \square \square$. Swap with a partner and colour the shapes you can see in their picture.







What to do next:

Sort them another way.







Draw some more circles, squares and triangles in the box below. Ask a partner to write **t** in the triangles, **c** in the circles and **s** in the squares.







What to do:

Look at the picture. Count how many of each shape.



What to do next:

Create your own picture using attribute blocks. Count and record how many of each block you used.

I used ...





What to do:

Cut out the shape cards. Combine your cards with your partner's cards and turn them face down.

Take turns turning over 2 cards. If the shapes match, you keep them. It is OK if they are different sizes or in different positions.









TOPIC

SERIES



What to do:

Ask your teacher to make 5 cm cuts in one square like this and to cut the other square into 5 cm strips.

Weave your strips through the square, going over

What to do next:

Join your weaving with those of your classmates to make a great big rug.

2 paper squares in different colours

Talk with your teacher and classmates to answer these questions.

What shape is the rug?

How many big squares are in the rug?

How many small squares might there be?



You will need: 🛛



(Internet)



Copyright © 3P Learning

What to do:

Ask your teacher to secretly put a shape into the bag.

Take turns reaching into the bag and describing the shape you feel. You can talk about its corners, its faces, what it reminds you of, or how different parts of it feel.

Ask your teacher to record the words you use on a big chart.

What to do next:

Ask your teacher to read these mystery clues. Use the shapes to help you. Can you name the shapes?

I have no corners or edges. I feel smooth. I can roll.	You find many of me in food cupboards. I have straight sides. I have corners. My faces are rectangles.
I am a	I am a

3D space – language

You will need: (3) partners

group activity

(P) a bag D a bag D a bages





3D space – language



face

face

What to do:

Look at your box. Use your paper and markers to draw a face for each face of your box. Glue them on.

Count and number the faces on your box.

How many faces does it have?

How many faces does someone else's box have?





3D space – language

1 Write or tell someone what you call these shapes. Draw an everyday object that is the same shape.





3D space – everyday objects



What to do:

Cut out the pictures of the everyday objects on page 19. Sort and paste them into the right boxes below.





3D space – everyday objects









What to do next:

Will some shapes do both? Circle them if they do. Tell someone why you think that is.





What to do:

Which blocks stack well?

Test them out.

Tick the blocks that stack. Cross the blocks that don't.



What to do next:

Choose the block you think will be best for building a tower. Build it. How high can you go? Draw a picture of your tower.







What to do:

Look at the faces on your box. What shapes do you think they are?

Carefully paint one face of your box and then print it onto your paper. Do the same for all of the box faces.

What shapes are there?

Does your box have different shaped faces or are they all the same? Ask your teacher to write your findings on your paper.

.....

What to do next:

Choose a different box or a cylinder and find out what kind of faces it has.







What to do:

Cut out the words. Mix them up and put them face down.

Take turns picking a card. Use your lunchbox and put your teddy in the right place. If your partner thinks you have done the right thing, you can keep the card. Play until all the cards are gone.

What to do next:

Ask your teacher if you can go out to the playground with your class. Ask your teacher to tell you to get **on**, **off**, **in** or **out** of something. Watch out, their instructions will be fast!







scissors



What to do:

Cut out the cards. Put them in a pile, face down.

Take turns taking a card and telling your partner **where the star is** compared to the other object.

You could start your sentence with 'The star is …'. If your partner agrees that your sentence makes sense, take the card.

Play until all the cards are gone.

What to do next:

You could play again, this time saying where the star is **not**.





- 1 Ask your teacher to read these instructions to you. Watch out, the picture will be a bit crazy!
 - Draw a pig in **the middle** of the box.
 - Draw clouds **underneath** the pig.
 - Draw a tree **above** the pig.
 - Draw a snake **next to** the pig.
 - Draw a hat **on** the snake.
 - Draw a sun **underneath** the snake.
 - Draw a mouse **far away** from the snake.



You will need: (your teacher or a helper

What to do:

The words below all tell us about **position** – where something is.

Your teacher will use these position words to tell you where to stand or how to move. They might say, 'Stand **next to** a chair', or 'Go **under** the table and **around** my chair'.

They will tick off the words you understand.



What to do next:

Find a partner and play the same game with each other.

Geometry Copyright © 3P Learning



Position – directions

What words do we use when we give directions to someone?



another team

What to do:

You are going to direct people to get to a particular place. Decide with your partner where this is. It could be the library, the office or another classroom.

Practise going there with your partner and decide on the directions you will give people. You might say things like:

'Go **straight** down the hallway. Just **before** Mrs Lee's room, **turn** and go **out** the door ...'

Find another team and give them the directions. Were your directions right or did you have to change them a bit as you went?



What to do next:

Talk with others about all the different words we can use when we give directions. Ask your teacher to record them for you.

