

Shapes

Hi!
In this sequence of lessons children will learn about shapes.
Hope you have some fun!

session 1 ---- identify solid shapes

session 2 ----recognise/ name shapes

session 3 -- group shapes by size, colour, properties

session 4 make patterns

If you have pipe cleaners
these are a great way to
explore which shapes your
child is familiar with and
also for them to explore
the properties (how a
shape is formed) of
different shapes. Say a shape name and race each other to make it. Another great medium is playdough.

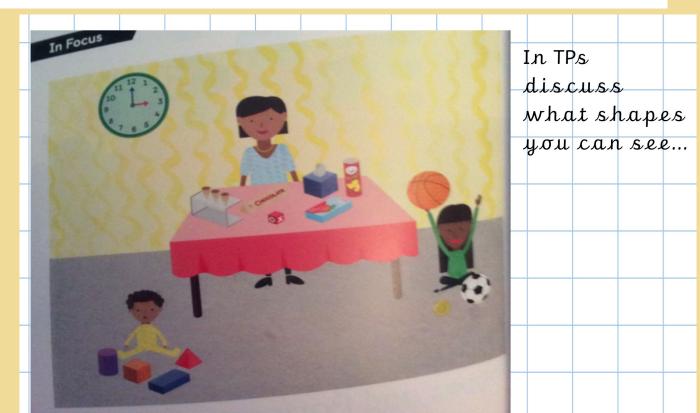




Look at the picture and explore different shapes they can see.

Ask
Can you find any of these shapes in your home?

Can you name the shapes?

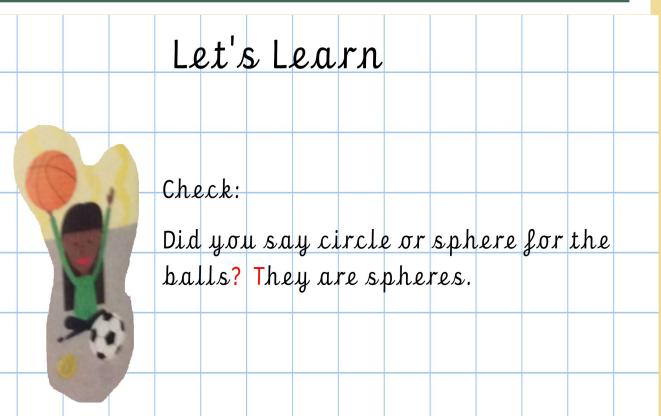


This is just a check that children understand 3D shapes.

To explain 3D simply say you can pick it up (anything that is 2D is flat therefore it cannot be picked up).

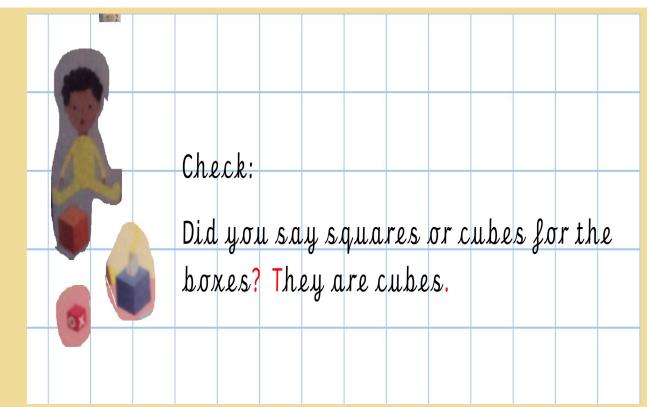
Draw a shape on a piece of paper and ask your child to pick up the square (Not the paper- interesting conversations will follow!

Let us know their comments!

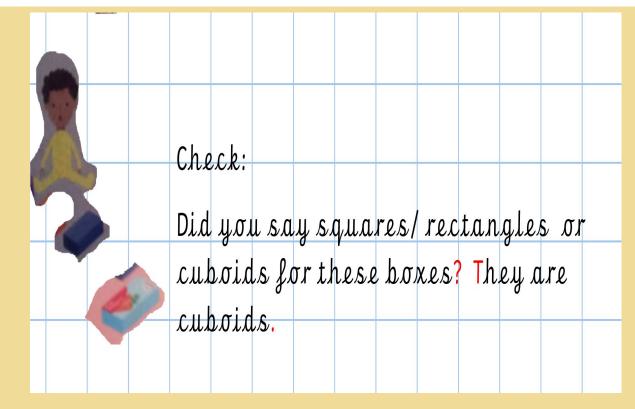




Tust reinforcing the mathematical language.

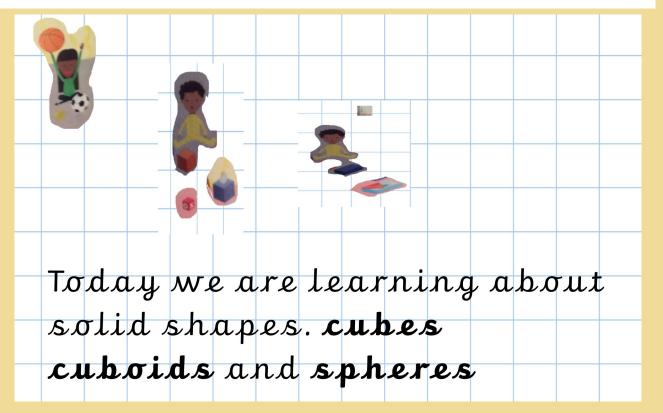






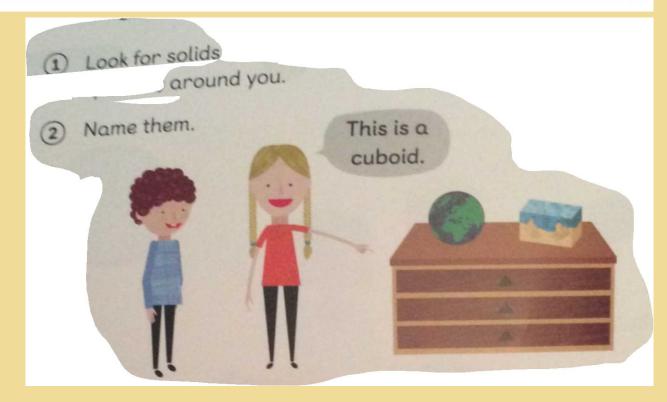


This is just to make it clear to the children what it is that they are learning. It helps them to understand and have ownership of their learning. As they look through their books they can explain what they had done.



Go on a solid shape hunt (or give them a name and they have to find that particular shape in their toy box / bedroom)

As they bring the shapes name them.

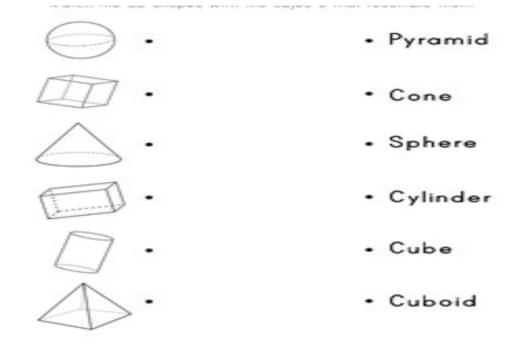


Explain that we are looking at spheres, cuboids, and cubes, however there are other solid shapes too.

Identify the three first then can they have a go at matching the others too?

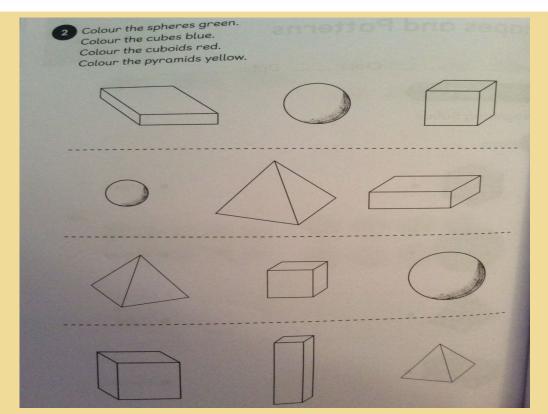
WOW! You stars!

Session 1 recognising solid shapes (1)



If possible print this page for the children, unless you could draw them)

This activity helps your child to read for meaning, identify their phonic sounds and put them into real life context and it supports their fine motor control too, hence supporting their handwriting muscles.





Parents Notes
Hello! Today we move
their learning from 3D
shapes to 2D shapes.
What we are leading to is
to understand that 3D
shapes are made from 2D
shapes being joined
together.

2D shapes are the faces of 3D shapes.

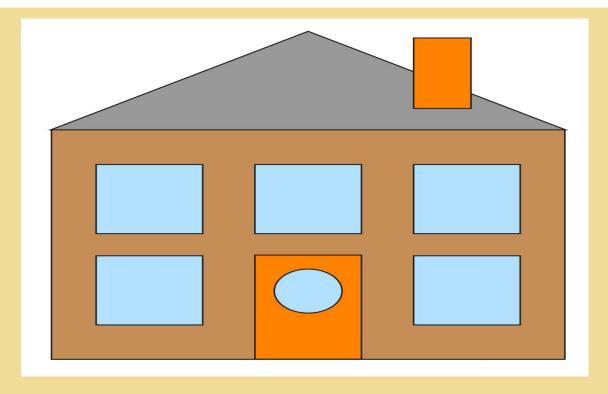
Session 2 Recognising 2D shapes



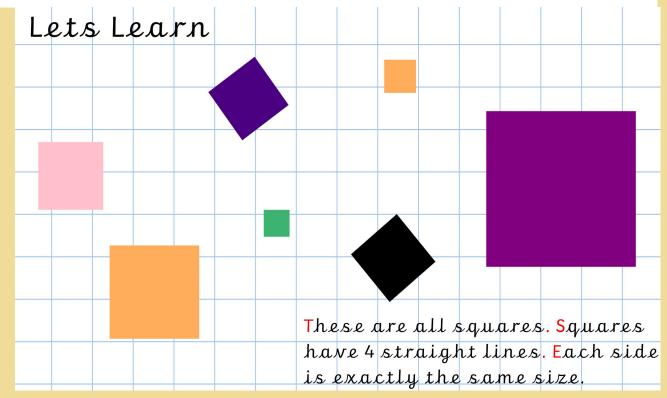
ask

What shapes can you see?

Talk about differents shapes.

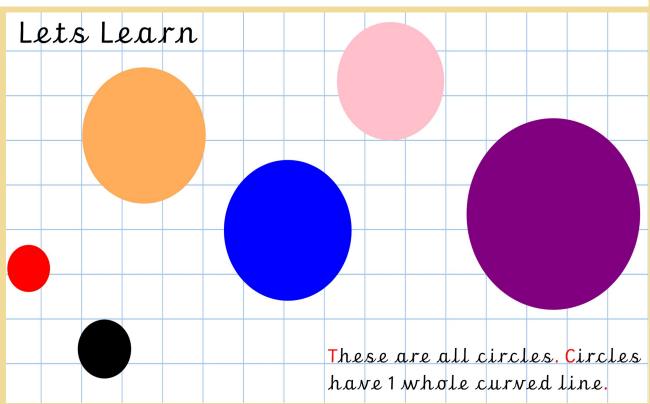




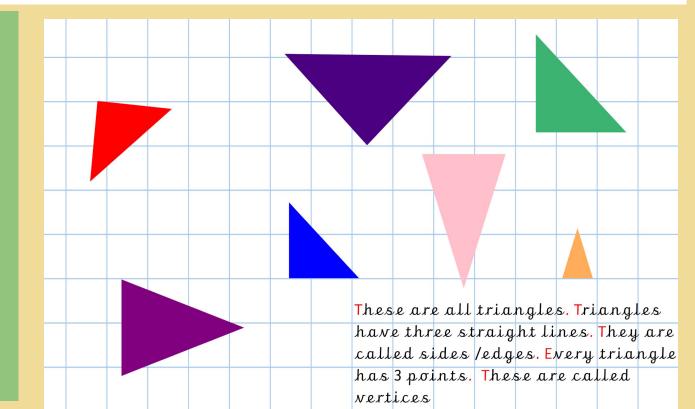




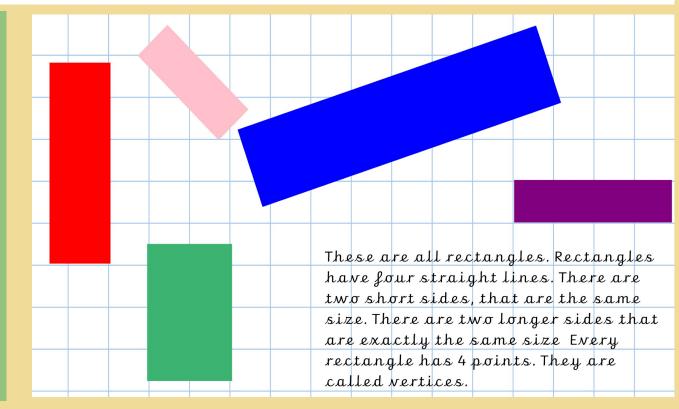
Here the playdough pipe cleaners are great for the children to make explore the shapes.





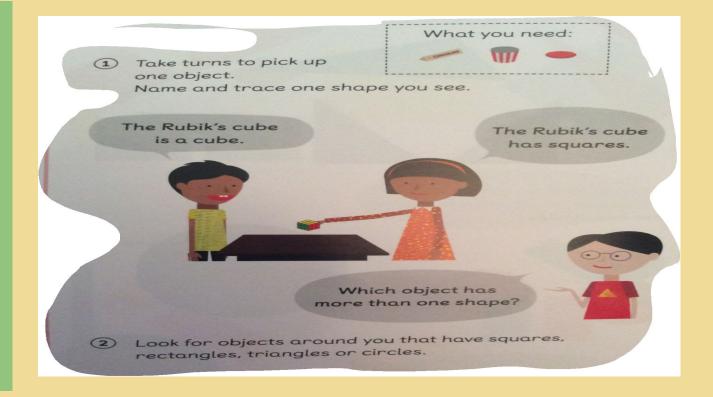




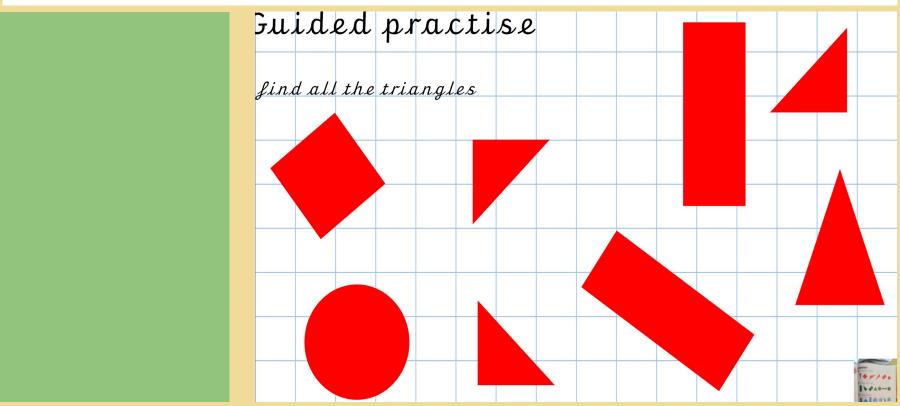


Find different objects around the garden, in your bedroom, the kitchen and say what shapes you can see.

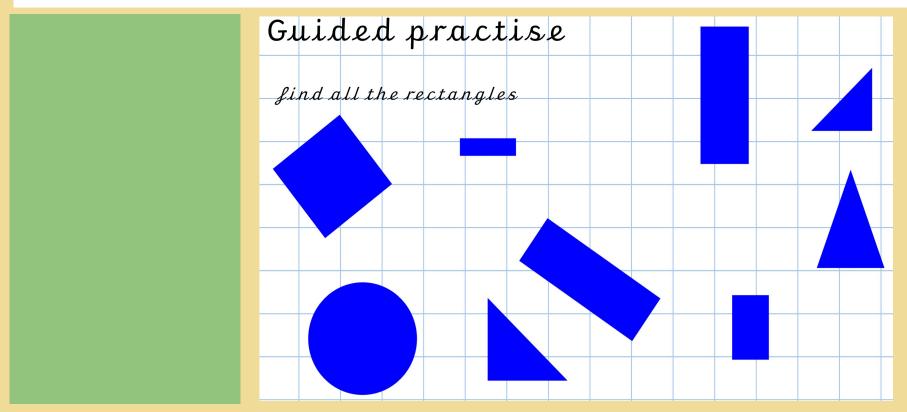
Are you saying 2D or 3D names?



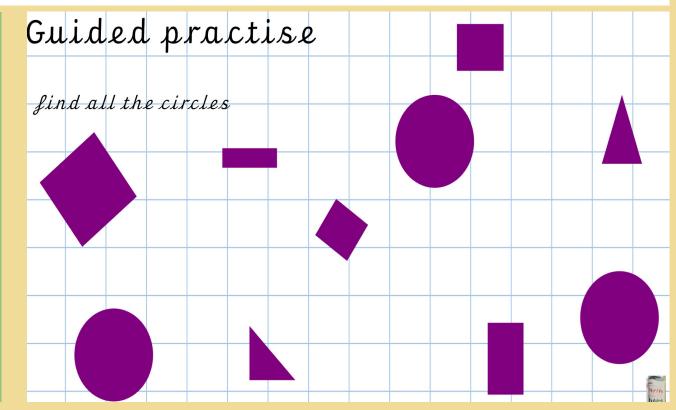




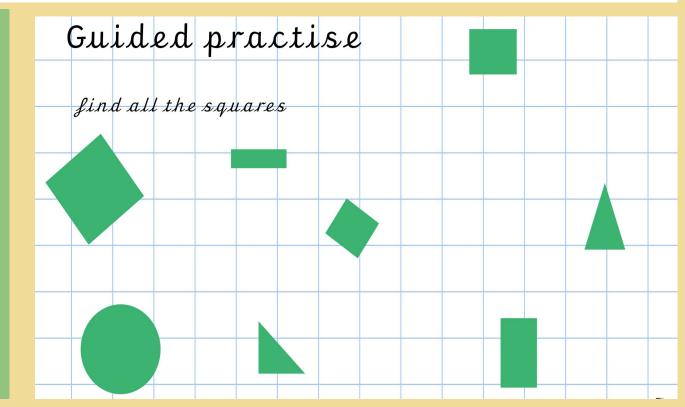












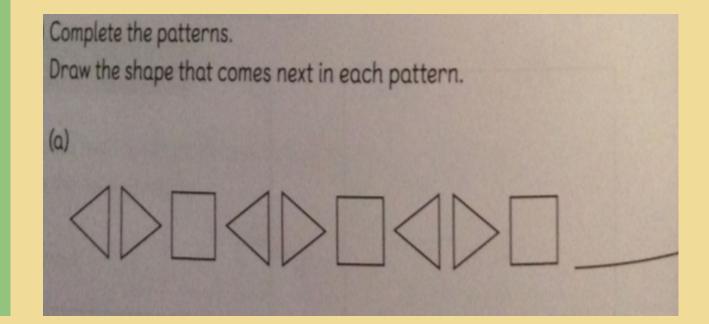


For the next couple of slides

This is where the children show their understanding of 2D shapes now.

They copy the pattern and continue on their own, if they need help then discuss go back and reinforce the part they are not clear about.

Together we are doing great!



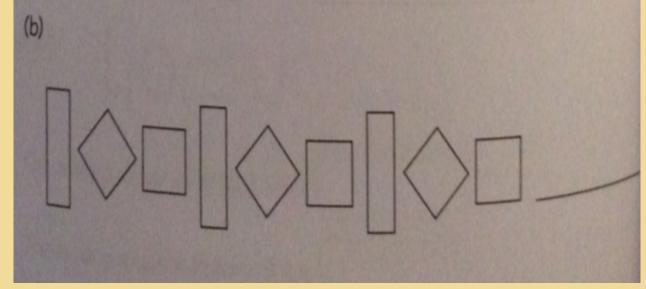


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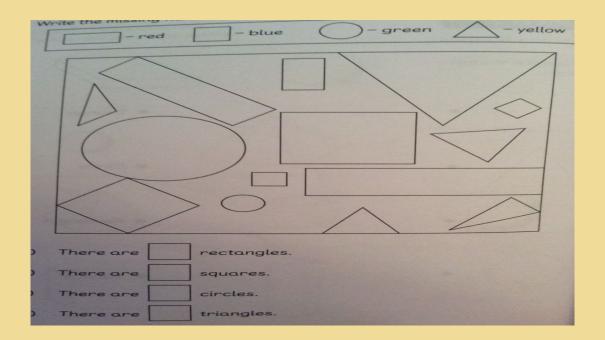


For the next couple of slides

This is where the children show their understanding of 2D shapes now.

Can they recreate this picture by drawing around the objects that they found? Then write and complete the sentences.

Together we are doing great!





Good morning

Today we are learning how to group shapes.

We will think about colours, properties and size.

Hope you enjoy

Year One Team

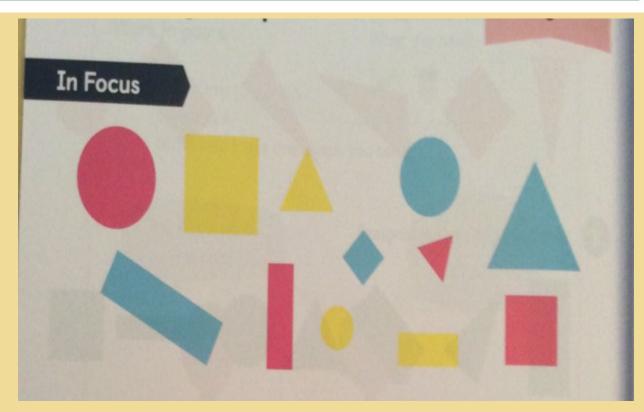
Session 3 Finding different ways to group shapes

ask

Can you name the four different shapes we can see?

What is your idea about grouping them?

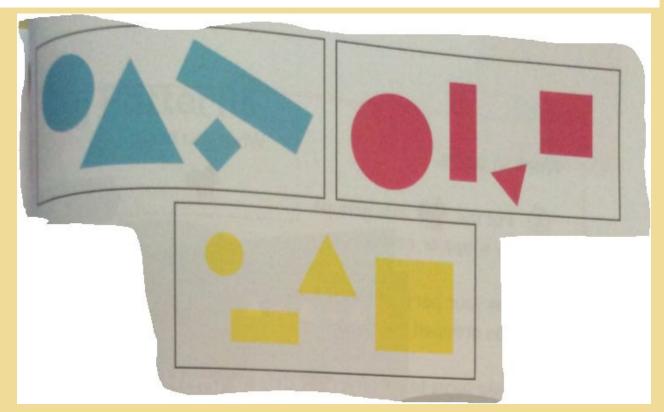
How would you group them?





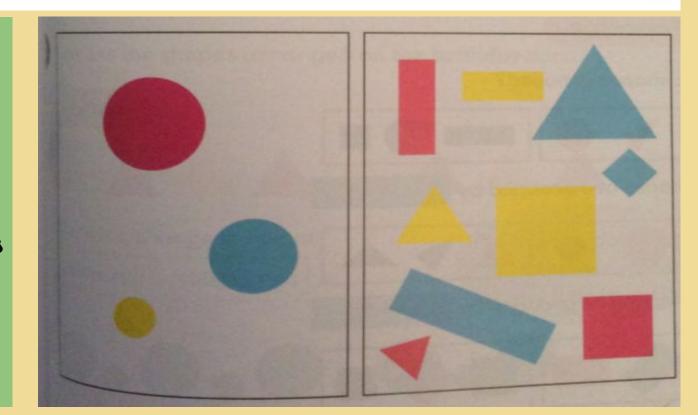
Lets learn

Explain that we can sort shapes by their colour.



Ask children to explain how these shapes have been grouped together.

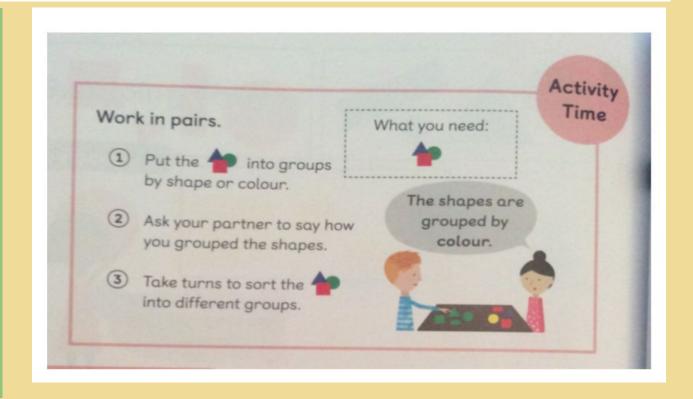
We do this to encourage children discuss the properties of shapes.



Activity time

Ideally the children need to three different coloured either Play-Doh, pipe cleaners, lollipop sticks, gummed paper, shapes cut from paper before the activity begins.

Now give them different shapes in different colours and ask them to sort them then explain how they have done this.



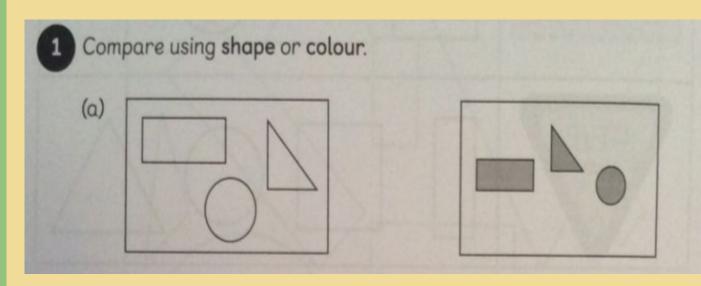


Ask the children to write the sentence

The shapes have been grouped by....

Note: this is a dictated sentence so explain they write write it completely on their own (check can they remember all the words are they spelling words correctly?)

Don't forget capital letters finger spaces and full stops.

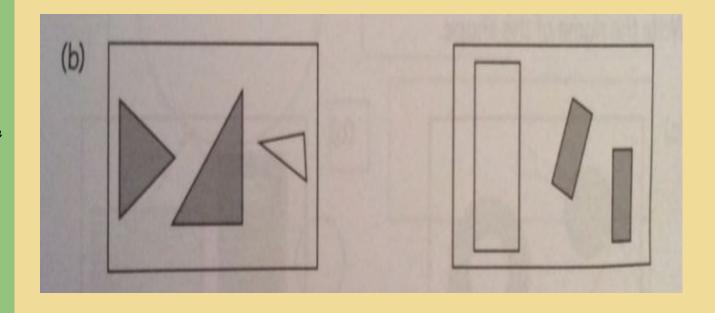


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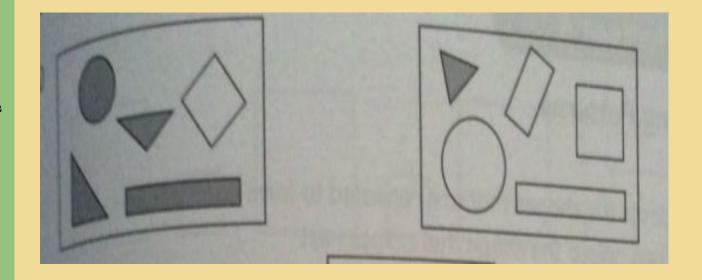


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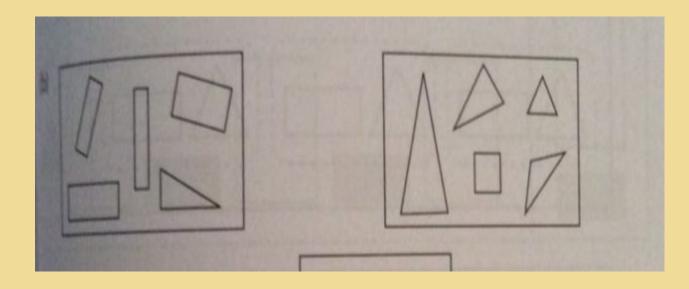


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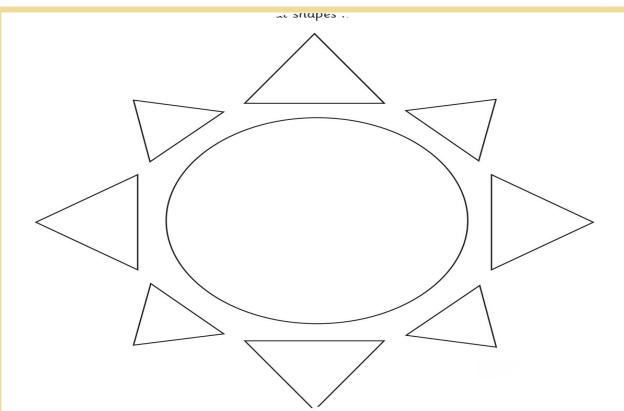
Don't forget capital letters finger spaces and full stops.





a brilliant game to play here is if you have a wipe board and pen, great the children love these, no? No problem paper and pencils are good too.

You describe a picture (the one opposite) but don't let the children see what you are drawing-only describe draw a circle in the middle of the paper, now draw eight triangles around the outside of the circle. Reveal all pictures. Are they the same?



Good morning today we are going to be in making patterns using shapes.

The children will look at and explain the patterns. With support we will help them to explain how to identify the rules of making a pattern.

We are going to teach them that a pattern is a sequence of objects that are repeated

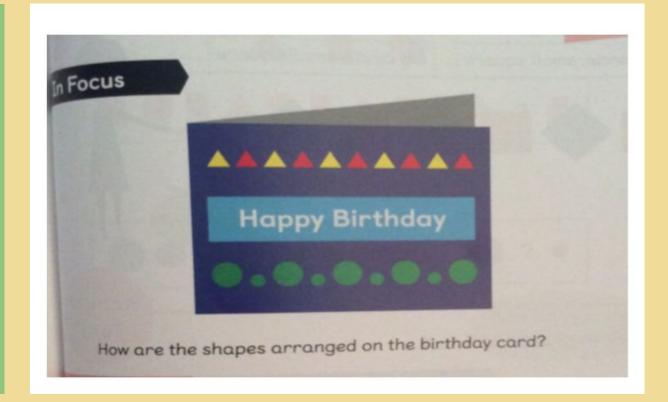
Session 4

Making Patterns

Show the children the picture of the card and ask them how could I describe the pattern of the triangles and the pattern of the circles.

We are looking to see if the children can identify patterns and remember grouping in a variety of ways eg by shape, colour or size.

Explain they are grouped in colour/size but do go back to yesterday's lesson and reinforce this understanding, if needed.



Show the children the pattern and explain to them that there has been a change in colour each time a triangle has been placed there has been a yellow then a red yellow and a red the pattern.

Therefore the rule of this pattern is yellow triangle red triangle yellow triangle red.

The triangles have been grouped by shape but the rule is to change the colour each time.

It is a two colour pattern.

Lets Learn



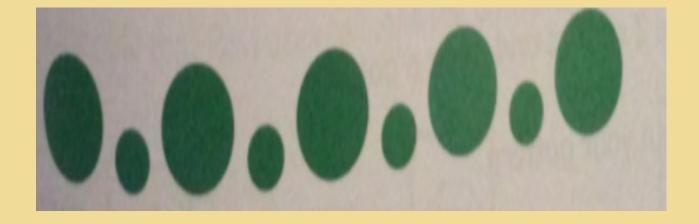


Show the children the pattern and explain to them that there has been a change in size, this is the rule of this pattern. Each time a circle has been placed there has been a big one then a small one.

Therefore the pattern is big, small, big, small.

The circles have been grouped by shape but the rule is to use two different sizes and change them each time.

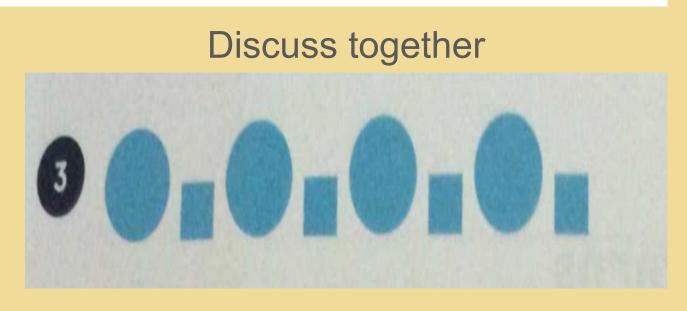
Discuss Together



Show the children the pattern and explain to them that there has been a change in size and shape now., Each time a shape has been placed there has been a different size and a different shape: big circle small square, big circle small square.

Therefore the pattern is big circle small square.

The shapes have been grouped by shape and size so the pattern is to change the size and the shape each time.



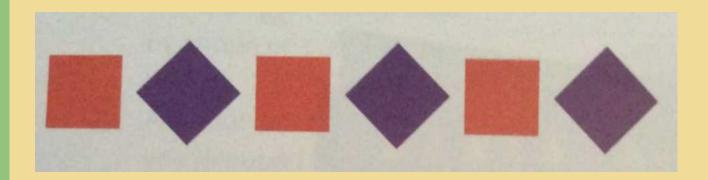
Show the children the pattern.

Explain to them that there has been a change in position and colour and we call this a rule. The rule means that each time a shape has been placed it has been turned to a different position and a different colour.

Therefore the rule is orange, purple (tuned), orange purple (turned).

The squares have been grouped by shape and colour so the rule is to change the position and the colour.

Discuss Together

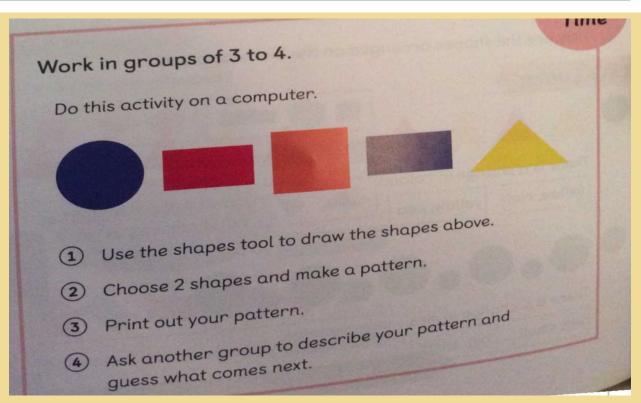




If possible can the children have access to a computer if not that's not a problem get the children to draw their own pattern using either shape or colour.

We are looking for the children's understanding of pattern. Can they explain their pattern?

If the children have made a pattern on the computer upload it and put it on year one so we can see their patterns.



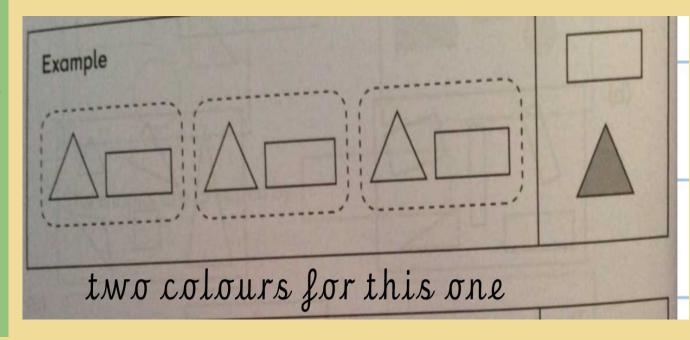
Copy these patterns into your books.

Then use colours to make a rule.

Explain your rule to someone. Eg I have grouped the shapes using points. 3 pointed 4 pointed and then use red and yellow colours.

Ask children to write down their rule too.

Independent



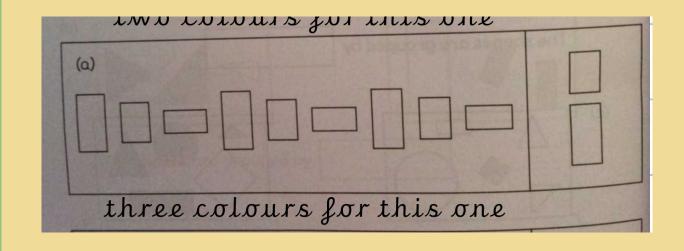
Copy these patterns into your books.

Then use colours to make a rule.

Explain your rule to someone. Eg I have grouped the shapes using rectangles now finish the rule

Ask children to write down their rule too.

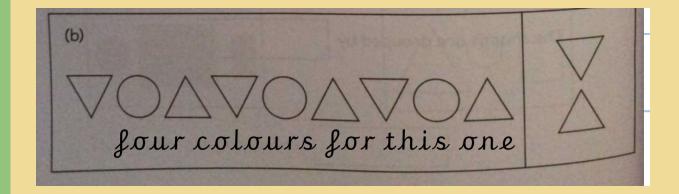
Independent



Explain your rule to someone. Eg I have grouped the shapes using lines. 3 straight lines 1 curved line etc...

Ask children to write down their rule too. opy these patterns into your books.

independent





The beauty of these sessions are that now the children should understand shapes grouping and patterns and they can apply their knowledge in a different way.

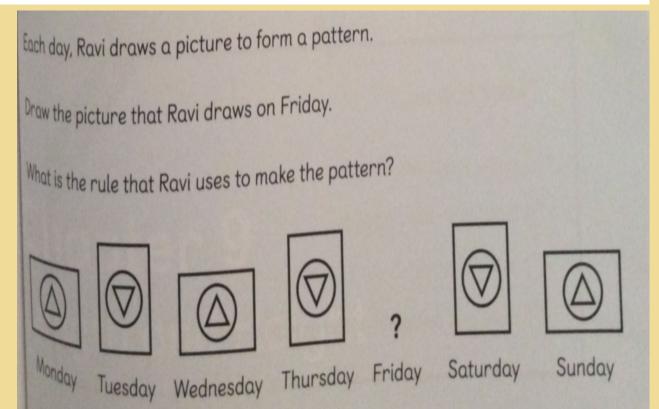
What you want the children to do now is to actually work out the problem with very little help from you or me.

Good luck I know that they will do this!

Session 5

Mind work out

Ask the children to read it and explain to you what they need to do to complete the task.





Activities like these help the children with both their reading and their reasoning in maths.

These are the best maths days generally because the children are secure in their knowledge and they love to show it off! They thrive on the recognition and understanding that they have got it correct!

These are the best to teach and I hope that you found this too.

