

## Shapes

## Parents Notes

## He:

In this sequence of lessons children will learn about shapes.
Hope you have some fun!
session $1---i d e n t i f y$ solid shapes
session $2---r e c o g n i s e / n a m e ~ s h a p e s$
session 3-group shapes by size, colour, properties
session 4 make patterns

Panents Notes
If you have pipe cleaners these ane a great way to explone which shapes your child is familiar with and also for them to explone the propenties Chow a shape is formed) of different shapes. Say a shape name and nace each other to make it. Another great medium is playdough.



Parents Notes
Look at the picture and explone different shapes they can see.
ask
Can you find any of these shapes in your home?

Can you name the shapes?


Parents Notes
This is just a check that children understand 3D shapes.
To explain 3D simply say you can pick it up Canything that is $2 D$ is flat therefore it cannot be picked upI.
Draw a shape on a piece of paper and ask your child to pick up the square CNot the paper- interesting conversations will follow! Let us know their comments!
Let's Learn
Parents notes

| Just neinfoncing the |
| :--- |
| mathematical language. |

Check:
Did you say squares or cubes for the
hoxes? They arecubes.

Parents Notes

Check:
Did you say squares/ rectangles or cuboids for these boxes? They are cuboids.
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Parents Notes
This is just to make it clear to the children what it is that they ane 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.


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

As they bring the shapes name them.
(1) Look for solids around you.
(2) Name them.


Parents Notes
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)


- Pyramid
- Cone
- Sphere
- Cylinder
- Cube
- Cuboid


## Panents Notes

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

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

2 Colour the spheres green
Colour the cubes blue.
Colour the cuboids red.
Colour the cuboids red.


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Panents Notes
Hello! Today we move their learning from 3D shapes to $2 D$ shapes. What we ane leading to is to undenstand that $3 D$ shapes ane made from 2D shapes being joined logether.

2D shapes are the faces of 3D shapes.

## Session 2 <br> Recognising 2D shapes

Parents Notes
ask
What shapes can you see?
Talk about differents shapes.


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Lets Learn
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Panents Notes
Here the playdough pipe cleaners are great for the childnen to make explone the shapes.



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Find different objects anound the garden, in your. bedroom, the kitchen and say what shapes you can see.
Are you saying 2D on 3D names?

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## Independent!

Fon the next couple of slides

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

They copy the paftern and continue on their own, if they need help then discuss go back and reinfonce the part they are not clear about.
Together we are doing great!

## Complete the patterns.

## Draw the shape that comes next in each pattern.

(a)



## Independent!

For the next couple of slides

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Together we are doing great!
(b)



## Independent!

Fon the next couple of slides

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

Can they recreate this picture by drawing anound the objects that they found? Then write and complete the sentences.
Together we are doing great!


Good momning
Today we ane learning how to group shapes.

We will think about colours, propeenties and size.

Hogpe 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 grouying them?

How would you grouyp them?

## In Focus



## Lets learn

Explain that we can sort shapes by their colour.


Ask childnen to explain how these shapes have been grouped logether.

## We do this to

 encounage childmen discuss the properenties of shapes.

## Activity time

Ideally the childmen need to thnce different coloured either Play-Doh, pipe cleaners, lollinop sticks, gummed papper, 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.

Children look at the pictures and then they use either the wond shape or colour to explain how the shapes have been sorted.

Ask the childmen 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 Ccheck can they remember all the words ane they spelling words comrectly?

Dont fonget capital leftens finger spaces and full stops.

## Independent

## 1. Compare using shape or colour.

(a)



## Independent

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## Independent




A brilliant game to play here is if you have a wipe boand and pen, great the childmen 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 cincle in the middle of the paper, now draw eight triangles anound the outside of the cincle. Reveal all pictures. Are they the same?


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Good monning today we are going to be in making patferns using shapes.

The children will look at and exgplain the patterns. With suppont we will help them to expplain how to identify the mules 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 childnen the picture of the cand and ask them how could I describe the pattern of the triangles and the pattern of the cincles.

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

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

## Focus




Show the childmen 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 ned the pattern.
Therefone the mule of this pattern is yellow triangle red triangle yellow triangle red.

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

It is a two colour pattern.

## Lets Learn


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Show the childnen the pattern and explain to them that thene has been a change in size, this is the nule of this pattern. Each time a cincle has been placed there has been a big one then a small one.

Therefone the pattern is big, small, Big, small.
The cincles have been grouped by shape but the nule is to use two different sizes and change them each time.

Discuss Together


## Discuss together

Show the childmen the pattern and explain to them that thene 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 cincle small square, big cincle small square.

Thenefore the pattern is big cincle small squane.

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

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

Therefone the rule is onange, punple (tuned), onange purple Cturned).

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

## Discuss Together




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If possible can the childnen have access to a computen if not that's not a problem get the children to draw their own patfern using either shape or colour. We are looking for the children's understanding of pattern. Can they explain their pattem? If the children have made a pattern on the computer upload it and put it on year one so we can see thein patferns.

Work in groups of 3 to 4.
Do this activity on a computer.
(1) Use the shapes tool to draw the shapes above.
(2) Choose 2 shapes and make a pattern.
(3) Print out your pattern.
(4) Ask another group to describe your pattern and guess what comes next.

Copy these patterns into your books.

## Independent

Then use colours to make a nule.
Explain your mule to someone. Eg I have gnouped the shapes using points. 3 pointed 4 pointed and then use red and yellow colours.

Ask children to write down their nule too.

## Independent

Copy these patterns into your books．

Then use colours to make a nule．
Explain your mule to someone．Eg I have grouped the shapes using rectangles now finish the mule

Ask childnen to write down their nule too．


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

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

## independent



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

Each day, Ravi draws a picture to form a pattern.
Draw the picture that Ravi draws on Friday.
What is the rule that Ravi uses to make the pattern?


Activities like these help the childmen 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 conrect! These are the best to teach and I hope that you found this too.


Jake makes a pattern with 3 shapes $\square \Delta$ He makes a mistake in the pattern above. Colour the shape he needs to remove. Draw the correct pattern.

