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Chapter 1





Chapter 1

What is Sorting?



When we put things that go together in one group, we call it sorting!



Look at Diya's room

All her toys are mixed up!



She wants to put them in 4 boxes:




Soft toys



Sport toys



Art things



Books

Sorting helps us:

Find things fast | Keep things clean | Think clearly

In your home, what gets sorted every day?

Spoons in one drawer, socks in another!







Chapter 1



Sort by Colour



Activity 1 • Colour Groups

Look at all these fruits. Put them in the right basket! Draw a line. 



Red basket

Draw red fruits



Yellow basket

Draw yellow fruits



Purple basket

Draw purple fruits



You can also colour each basket the right colour!



Which basket has the **MOST** fruits?

Count and write here:





Chapter 1



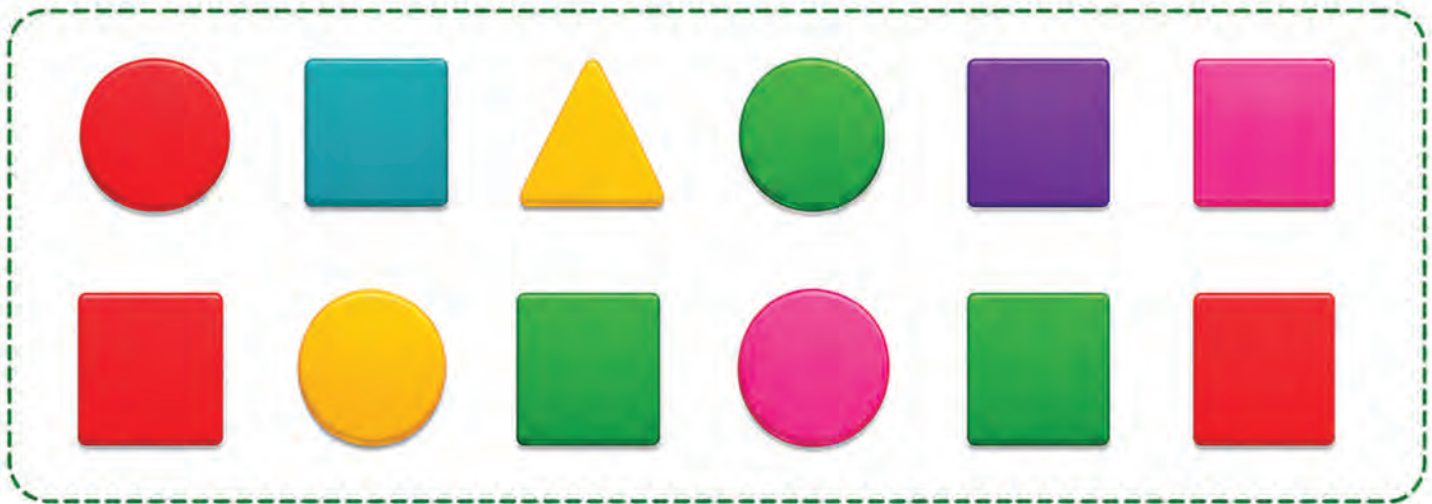
Sort by Shape




Activity 2 : Shape Sort



Arjun found these shapes on the playground. **Circle** the ones that are the same shape.



Now write how many of each shape you see:


Circles


Squares


Triangles



At home, find 3 round things, 3 square things, and 3 triangle things!



Chapter 1

Sort by Size



★ Activity 3 • Big, Medium, Small

Mithu found 6 balls. Help her arrange them from **smallest** to **biggest**!



Write the order: **smallest** first ■ **biggest** last

1 smallest	■	2	■	3	■	4	■
		5	■	6 biggest			



Did you know? Even animals sort by size! Birds feed their loudest, biggest baby first!



In your shoe rack, who has the biggest shoes? Who has the smallest? Sort them!





Chapter 1



Sort by Two Things



Can you sort by two things at once?

Look at these fruits. Some are **RED** and **BIG**. Some are **YELLOW** and **SMALL**. Sort them into 4 groups!






Make 4 boxes and put the right fruits in them:

 **BIG & Red**
 Draw here:

 **BIG & Yellow**
 Draw here:

 **SMALL & Red**
 Draw here:

 **SMALL & Yellow**
 Draw here:

  **Sorting by 2 things is harder! Computer scientists do this all day!** 



Activity • Sort the World



Some things are **alive** (they grow, eat, and breathe). Some are **not alive**.



Put each into the right group!



Living Things

They grow, eat, and breathe

Draw or write here ↓



Non-Living

They don't grow or eat

Draw or write here ↓



Tricky question! Is Beep the robot **LIVING** or **NON-LIVING**?

Hint: Beep moves and “talks” – but does he grow? Does he eat food?



Chapter 1



Where Do I Belong?

Activity • Cut, Sort & Paste



Ask a grown-up to help you cut out these things. Then paste them in **Diya's** house! the right room of



Cut these out



Bedroom
Paste here



Bathroom
Paste here



Kitchen
Paste here

If you don't want to cut, just draw little arrows!

Chapter 1



My Toy Box Project



Mini-Project • 1 Hour at Home



Mission: Sort all your toys into 3 groups and make a label for each!

Steps:

1

Take ALL your toys out of your toy box.



2

Look at them. What 3 groups can you make?



3

Make 3 piles. (Example: soft toys, cars, blocks)



4

Draw a little picture label for each group.



5

Put each toy back in the right group!



What 3 groups did you make? Write them below 📌



1. _____

2. _____

3. _____









Chapter 1



Try it Yourself!

Sorting Champion Challenge

- 1. Sock Match:** Sort all the socks at home. How many pairs? 
- 2. Spice Sort:** In the kitchen (with mom), see how spices are sorted. 
- 3. Crayon Rainbow:** Arrange your crayons in rainbow order. 
- 4. Vegetable Sort:** Help mom sort vegetables when she gets back from the market. 

You learned in Chapter 1:

- Sorting means putting like things together
- We can sort by colour, shape, size, or even 2 things at once
- Living and non-living things can be sorted
- Sorting helps us find things faster



Great job, little thinker!



Next up: Patterns!

Chapter 2



Patterns Around Us



Things that repeat again and again!





Chapter 2



What is a Pattern?



A pattern is something that repeats again and again!



Patterns are everywhere! 👁️

In a tiger's stripes 🐯, on a ladybug 🐞, in a rangoli 🌺, in your school uniform... look for them!



Can you spot the pattern?



red, blue, red, blue, red, ___?



star, star, moon, star, star, ___?



Patterns help us guess what comes next. Even big scientists use patterns every day!



Colour Patterns



Activity • Continue the Pattern



Look carefully. Then colour the next 2 circles to keep the pattern going!



1 Which pattern was the easiest? Tell a grown-up why.



2 Make your own pattern with 3 colours below





Chapter 2

Shape Patterns




Activity • What Comes Next?

Circle the shape that comes next in each pattern.



▲ ■ ▲ ■ ? → ▲ ■ ●

★ ★ ♥ ★ ★ ? → ★ ♥ ☾


🌸 🌿 🌸 🌿 🌸 ? → 🌿 🌸 🌺



Indian Pattern Fun!
Look at a rangoli or a kolam.
Can you see dots and lines making a pattern?

Find a pattern on your floor, your bedsheet, or your school uniform!



Sound & Action Patterns



Activity • Listen and Repeat



Patterns are not only in pictures. We can **hear** patterns too!

 **Try this:**

Clap, clap, stomp! Clap, clap, stomp! Clap, clap, ____?



CLAP



CLAP



STOMP

★ Action Pattern Game!

Stand up! Do this with your friends:



jump



spin



jump



spin





Chapter 2




Number Patterns




Numbers can also make patterns! 

Activity • Fill the Missing Numbers 

Look at each row. What number is missing? Write it in the box!

1 1 2 3 ? 5 


(add 1 each time)

2 2 4 6 ? 10 



(skip count by 2)

3 5 10 ? 20 25 

(skip count by 5)

4 10 9 8 ? 6 

(go backwards by 1)

  **Computers love number patterns. That's how they count super fast!**



Chapter 2



Patterns in Nature



Nature is full of beautiful patterns!



Tiger Stripes

Black, orange, black, orange...



Peacock Feathers

Beautiful eye-shapes repeated!



Honeycomb

Hexagons (6-sided shapes)!



A spinning round pattern!

Indian Pattern Fun!

Visit any temple in India — you'll find amazing patterns in:

● Rangoli on the floor



● Carvings on the wall



● Sarees and bandhani prints





★ Activity • Be a Pattern Artist! ★

Use your crayons. Make 4 patterns of your own.
Be as colourful as you want!



1 **Pattern 1 – use 2 colours:**



Large dashed rectangular box for drawing a pattern using two colors.

2 **Pattern 2 – use 3 colours:**

Large dashed rectangular box for drawing a pattern using three colors.

3 **Pattern 3 – use shapes:**




Large dashed rectangular box for drawing a pattern using shapes.

4 **Pattern 4 – your own crazy pattern:**

Large dashed rectangular box for drawing a crazy pattern.



 Use your imagination!
There are no wrong patterns
— only fun creations!





Mini-Project • Make Your Own Rangoli!



Mission: Make a beautiful dot rangoli with a pattern!

You will need:



Colour pens •



White paper •



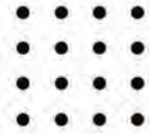
Pencil



Steps:

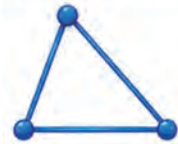
1

Draw 25 small dots in a 5×5 grid.



2

Join the dots with lines to make a pattern!



3

Use 3 different colours.



4

Make sure your pattern repeats!



Draw your rangoli here ↓









Chapter 2



Try it Yourself!



Pattern Detective Challenge

- 1. Pattern Hunt:** Find 5 patterns in your home! 
- 2. Bead a Pattern:** Make a 10-bead colour pattern. 
- 3. Pattern Song:** Make your own clap-stomp pattern song! 
- 4. Number Hop:** Hop up the stairs counting 2, 4, 6, 8, 10! 



You learned in Chapter 2:

- A pattern is something that repeats
- We see patterns in colours, shapes, sounds, and numbers
- Nature has beautiful patterns!
- Patterns help us guess what comes next



Did you know? Computers also learn by spotting patterns!



Pattern Master!

