Teacher encourages the children to observe the picture and ask some questions as given below.
1. Name the shapes that you could see in this picture.
2. Where and how these shapes are arranged?

### Learn

Observe the patterns in shapes. Complete it.

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Keywords
- Body movements
- Patterns

Patterns Unit 3

Travel through

3.1 Patterns in shapes

33
**Activity**

Decorate your class.

- Prepare similar shapes as given.
- Cut out a long strip in a chart as shown below.
- Make your own pattern by using the prepared shapes and strips.

Use it to decorate your classroom with the help of the teacher.

**Know more**

Draw shapes in different pattern to make your own Rangoli.

**Pleasure time**

Match the similar pattern.
3.2 Patterns in body movements

Travel through

Body movements

Ma ma maah...
I can run; I can run

La la laah...
I can jump; I can jump

Oh oh oh...
I can swim; I can swim

Pa pa paah...
I can swing; I can swing

Hey hey hey...
I can do; I can do

Learn

Observe the patterns in body movements.
Practice

Complete the patterns.

Game

Procedure:

- Ask the students to stand in a circle.
- If the teacher says 'small pot', students keep their hands close to each other.
- When the teacher says 'big pot', students keep their hands wide.
- One who does wrongly has to go out of the game.
- The student who stands till the end is the winner.
Try this

Do these exercises. Enjoy the pattern in it. Make your own pattern.

Teacher's Note

Teacher makes the students to stand in a line with one arm distance. Then makes them to do the exercises. When teacher says the counting, students do the actions as given above. Let the children observe the patterns in their movements.

3.3 Patterns in numbers

Learn

Observe the numbers given below.

1 2 3 4 5 6 7 8 9

Write the numbers based on your observation.

Now, write the numbers in the Guavas in order as given above.

Write the numbers in the Pomegranates in order as given above.

Observe the above numbers. Is there any pattern in it? Say what is that?
Practice

Complete the number patterns.

1 2 5 8
1 5 7
2 4
5 4 1

Pleasure time

Complete the number patterns.

1 2
2 4
8

38
Unit 4 Measurements

4.1 Comparisons

Keywords
Long - Short, Thick - Thin
Tall - Short, Heavy - Light
More - Less

Travel through

Observe the picture.

Teacher’s Note
Teacher explains the picture for introducing the above keywords.
Learn
Long - Short

Long
Short

Practice
Colour the Longer one with [ ] and the Shorter one with [ ]

Think like a Mathematician
Which stick will the mother use to get back the kite? Why?
Which candle will burn for a long time? Why?

Try this

Try this

Colour the **thicker** candle with and the **thinner** candle with

Which candle will burn for a long time? Why?

Tick (✓) the **thicker** book.

Tick (✓) the **thinner** tyre.
Think like a Mathematician

Which ladder will he use to pick the red coloured book? Why?
Learn Heavy - Light

Heavy

Light

Practice Colour the heavier one with
and the lighter one with

Can you suggest a pair of fruits for this concept?

Think like a Mathematician If the mother sits in the place of the boy, what will happen? Why?
Is it a right vessel to pour the full packet of milk? Why?

Think like a Mathematician

Practice

Tick (√) the bottle that contains less water.
Tick (√) the container that can hold more water.

Learn

More - Less

More

Less
Learn

Ordering

Tick (✓) the longest vehicle.

Tick (✓) the heaviest vegetable.

Practice

Tick (✓) the shortest.

Tick (✓) the tallest.

Teacher's Note

Teacher can help students to develop the idea of ordering objects based on length, mass and height.
4.2 Measures

Travel through

Keywords
Hand span, Cubit, Foot span, Pace, Length

Learn

Handspan (Saan)

Cubit (Muzham)
Learn

Foot span (Kaaladi)

Pace (Thappadi)

Activity

Fill the table and compare

<table>
<thead>
<tr>
<th>Object</th>
<th>Unit of Measure</th>
<th>Number of units in measuring the length by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window</td>
<td>Hand span</td>
<td>Teacher</td>
</tr>
<tr>
<td>Table</td>
<td>Cubit</td>
<td></td>
</tr>
<tr>
<td>Mat</td>
<td>Foot span</td>
<td>Teacher</td>
</tr>
<tr>
<td>Classroom</td>
<td>Pace</td>
<td></td>
</tr>
</tbody>
</table>

Think like a Mathematician

Why do the lengths measured differ from one another?
Primary Mathematics – Class I (Term 2)
List of Authors and Reviewers

**Reviewers**
- Dr. R. Ramanujam  
  Professor, Institute of Mathematical Sciences, Taramani, Chennai.
- Dr. Anitha Rampal  
  Professor, Central Institute of Educaiton, University of Delhi.
- K. Krithika  
  Research Center, Azim premji foundation, Bengaluru.

**Academic Co-ordinators**
- B. Tamilselvi  
  Deputy Director, SCERT, Chennai.
- Dr. P. Ramalingam  
  Principal, DIET, Kilpennathur, Thiruvannamalai Dist.

**Art and design**

**Illustration**
- R. Arivuselvan  
  Drawing Teacher, GHSS, Udhayana tham, Ariyalur District.
- N. Rengabashiyam  
  Drawing Teacher, Natarajan Dhamayanthi High School, Velipalayam, Nagapattinam District.
- N. Gopalakrishnan,  
  Drawing Teacher, Kumararaja muthiah HSS, Gandhi nagar, Adyar, Chennai.

**Graphics & Layout**
- V2 innovations, Gopalapuram, Chennai.

**Quality Control**
- S. Gopu  
  M. Karan  
  Manohar Radhakrishnan

**Wrapper Design**
- Kathir Arumugam

**Coordination**
- Ramesh Munisamy

**QR Code Team**
- R. Jaganathan, PUMS, Ganesapuram- Polur.

**Domain Experts**
- Dr. G. Palani  
  Senior Lecturer, DIET, Vadalur, Cuddalore District.
- D. Kasi  
  Lecturer, DIET, Palayampatti, Virudunagar District.

**Coordinators**
- M. K. Lalitha  
  B.T Asst, SCERT, Chennai.
- N. V. Poornima devi  
  B.T Asst, SCERT, Chennai.

**Content Readers**
- Dr. M. P. Jeyaraman,  
  Asst, Professor, Dept of Maths, L.N. Govt Collage, Ponneri.
- Dr. K. Kavitha,  
  Asst, Professor, Dept of Maths, Bharathi Women’s Collage, Chennai.

**Authors**
- S. Subramanian  
  BT Asst, PUMS, Udaiyalipatti, Kundrandaarkovil Union, Pudukkottai District.
- P. Prasanna  
  SGT, PUMS, Vettukattuvalasu, Madakkurichi Union, Erode District.
- R. Vijayakumar  
  SGT, PUPS, Naranikuppam, Veppanapalli Union, Krishnagiri District.
- N. Kalaiyani  
  SGT, PUMS, Thiruvanthavar, Uthiramerur Union, Kanchipuram District.
- S. Balambal  
  PGT, JG Hindu Vidyalaya MHSS, Chennai.

This book has been printed on 80 G.S.M. Elegant Maplitho paper. 
Printed by offset at: