Numeracy
For 4 to 5 year olds

Screen-free learning resources that build multiple skills.
Check if this Workbook is right for you.

Answer the following questions in 20 minutes.

1. Count and write the number:

2. Write the missing numbers: 2 _____, _____, 6, 8, 10

3. Arrange the numbers from smallest to biggest: 10, 20, 9, 3

4. What comes next in the following patterns?

```
A   B   A   B   _____
1   0   1   0   _____
```

5. Draw two objects that look like a circle.

Check your answers using the key on the next page.
Answer Key

Give the allotted marks for each correct answer.

1. 20, 8

2. 2, 4, 6, 8, 10

3. 3, 9, 10, 20

4. A B A B 1 0 1 0 1

5. (Any other circular object is correct.)

If your score is:

<table>
<thead>
<tr>
<th>Score</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or less</td>
<td>Use the Foundation Numeracy Workbook</td>
</tr>
<tr>
<td>4 to 7</td>
<td>This workbook is right for you!</td>
</tr>
<tr>
<td>More than 8</td>
<td>Use the Numeracy Workbook for Level 1</td>
</tr>
</tbody>
</table>
My Learning Journey

Name: ______________________

Week 1

Day 1  Day 2  Day 3  Day 4  Day 5  DONE!

Week 2

Day 1  Day 2  Day 3  Day 4  Day 5  DONE!

Week 3

Day 1  Day 2  Day 3  Day 4  Day 5  DONE!

Week 4

Day 1  Day 2  Day 3  Day 4  Day 5  WOW

If you liked this, go to our IFERB website for hundreds of more such resources. Visit https://resources.educationaboveall.org
Daily Routine

My Emotions

Draw how you feel everyday in your notebook.

Today, I feel

Happy

Sad

Confused

Angry

Scared
Week 1 Overview

My Cute Cat

Explore and count numbers from 21 to 30.

How Many?
Count objects and write the number.

Be a Number
Try looking like a number!

Action!
Count and repeat a given action.

Numbers in Words
Practise writing number names from 1 to 5.

Number Names
Practise writing number names from 6 to 10.

Materials Needed
- Paper
- Pencil
- Glue / Tape
- Scissors

Project

1
2
3
4
5
Day 1  Project-Based Learning

My Cute Cat

Can you draw a cat and count its whiskers?

Which animals have whiskers?

Count and trace these numbers:

Count: 21 21 21 21
Trace: 22 22 22 22

Making Cat Whiskers

Tear 10 thin rectangles of paper to make the whiskers of your cat.

Make the whiskers for the numbers ‘21’ and ‘22’.

Find objects in your home that look like thin rectangles.

Write the number

Draw the same number of circles.
Day 1  Worksheet

Numbers in Words (1 to 5 )

Say and trace the number names.

0  zero  zero  zero

1  one  one  one

2  two  two  two

3  three  three  three

4  four  four  four

5  five  five  five
Count and trace these numbers:

23
24
25

Make the cat whiskers for the numbers 23, 24, and 25.

Let’s Revise! Complete the Number Trains

1 5
6 10
11 15
16 20
21 25
Say and trace the number names.

6 six six six

7 seven seven seven

8 eight eight eight

9 nine nine nine

10 ten ten ten

Write the missing numbers.

1 3 5 7 9
Day 3  Project-Based Learning

My Cute Cat

Count and trace these numbers:

26

27

28

Make the cat whiskers for the numbers 26, 27, and 28.

Let's Revise!

Connect the dots.

Which animal do you see?

- Is there anyone in your home who is 20 to 28 years old?
- How old are they?
Math Game

3 or more players

Action!

How to Play

• A player will say a number (from 1 to 20) and an action. (*clap, jump, walk, etc.*)
• The others will do the action that many times.
• Give 1 point to the player who does it the fastest.

Who has the most points?
They win the game!
Count and trace these numbers:

29 30

Make the cat whiskers for the numbers 29 and 30.

Let's Revise! Skip-counting

1. Make a number line from 0 to 30 as shown:

```
0  1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
```

2. Start from 0. Skip 2 numbers and write the pattern below:
   2, 4, 6, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, 30

   5, 10, ___, ___, ___, ___,

   10, ___, ___,
Day 4 Movement

Be the Number

Take 3 deep breaths.
Make the numbers 1 to 9 with your body!

Here are some examples:
Make Your Cat

• Draw a circle to make the cat’s face and a bigger circle for the cat’s body.
• Add a tail and legs.
• Stick the whiskers to the face.

Present Your Cat

• Show and explain your cat to your friends and family.
• Count the total number of whiskers of your cat.

Let’s Revise!

1. Make a numbered list of the people in your family and your closest friends.
2. Draw them and write their names too!
3. How many family members are below the age of 30?
Count the number of items and circle the correct number.

Day 5

Worksheet – How Many?

20 23
21 24
22 25

25 28
26 29
27 30

20 23
21 24
22 25

25 28
26 29
27 30
Weekly Reflection

Did I enjoy learning this week?

[Smileys: Happy, Happy, Neutral, Sad, Sad]

What are some new things I learned?

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**Week 2 Overview**

**My Peacock**

Explore and count numbers from 31 to 40.

**Project**

**Let's Add**

Count the total items in the farm.

**Number Trace**

Practise writing numbers from 41 to 50.

**Who Says!**

Play a game to practise number orders.

**Hills and Valleys**

Calm yourself through a breathing activity.

**More or Less?**

Identify which group has more items.

**Materials Needed**

- Paper
- Pencil
- Clay or Dough
- Scissors, Glue
Day 1

Project-Based Learning

My Peacock

How many tail feathers does your peacock have?

Count and trace these numbers:

31 31 31

32 32 32

Making Your Bird

Draw an oval shape.
Cut 10 equal oval shapes.
These are the tail feathers of your peacock.

Write the number

31

Draw the same number of circles.

Make the tail feathers for the numbers ‘31’ and ‘32’.

Find objects in your home that have an oval shape.

Draw an oval shape.
Cut 10 equal oval shapes.
These are the tail feathers of your peacock.

Write the number

31

Draw the same number of circles.

Make the tail feathers for the numbers ‘31’ and ‘32’.

Find objects in your home that have an oval shape.
Help me count the total number of each item in my farm!

1.  
   
   
   +  
   
   =  

6

2.  
   
   
   +  
   
   =  

3.  
   
   
   +  
   
   =  

4.  
   
   
   +  
   
   =  

Count and trace these numbers:

\[
\begin{array}{c}
33 \\
33 \quad 33 \quad 33 \\
34 \\
34 \quad 34 \quad 34 \\
35 \\
35 \quad 35 \quad 35
\end{array}
\]

What do you think you can find 33, 34, and 35 objects of?
(Pebbles, leaves, etc.)

Make the tail feathers for the numbers 32, 33, and 34.

Let's Revise!

One less

\[
\begin{align*}
8 & \quad 9 & \quad 10 \\
12 & \quad 33
\end{align*}
\]

One more

\[
\begin{align*}
24 & \quad 17
\end{align*}
\]
More or Less?

Tick (✓) the group that has more number of things.
Day 3

Project-Based Learning

My Peacock

Count and trace these numbers:

36 37 38

Make the tail feathers for the numbers 36, 37, and 38.

Let's Revise!

Count backward to write the missing numbers.
Hills and Valleys

- Place your pointer finger at the first valley.
- As you breathe in, move your finger up the hill.
- As you breathe out, move your finger down to the valley.
- Repeat this 5 times.
Count and trace these numbers:

39

40

Make the tail feathers for the numbers 39 and 40.

Walk 40 steps with your parent. 
Who can reach further? Why do you think that is?

Let's Revise! Connect the dots. Which animal is it?
Who Says!

No. of Players
2 or more players

How to Play
• A player will say a number from 1 to 40.
• The others have to say the number that comes before and after it.
• Give 1 point to the player who says it correctly the fastest.

Who has the most points?
They win the game!
Make Your Peacock

• Draw or make the peacock’s face and body using clay or dough.
• Add eyes and a beak to the face.

Stick the tail feathers to the body in order.

Present Your Lovely Bird

• Show and explain your bird to your friends/family.
• Count the total number of tail feathers.

Let's Revise! Fill the missing numbers.
Trace and write numbers from 41 to 50. Arrange small objects at home in the shape of each number.

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Weekly Reflection

Did I enjoy learning this week?

What are some new things I learned?

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Week 3 Overview

Beauty in Shapes
Explore shapes and measurements.

Project

What Shape Are You?
Create shapes using your body!

Sunny Side
Think and draw what makes you happy!

Story Time
Read about The Shape Family.

Shape Matching
Match the objects with the shape.

Measurements
Measure objects using digits and handspans.

Materials Needed
- Paper
- Pencil
- Colors
- Chalk
Can I make a drawing using different shapes?

Do you know these shapes?

Circle  Triangle  Rectangle  Square
Star  Heart  Oval

Draw 2 objects at home that look like each shape.

Example

<table>
<thead>
<tr>
<th>Shape</th>
<th>Object 1</th>
<th>Object 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Circle" /></td>
<td><img src="image" alt="Plate" /></td>
<td><img src="image" alt="Clock" /></td>
</tr>
</tbody>
</table>
What Shape Are You?

How to Play

• Each player act out these shapes and lines:

- Triangle
- Rectangle
- Square
- Star
- Heart
- Circle
- Line

• If others guess the shape correctly, the player gets a point.

The player with the most points wins the game!
Day 2
Project-Based Learning

Beauty in Shapes

We will make a drawing using shapes this week!

Which shapes do you see in this drawing?

Let us practise drawing shapes! Trace the following:

Drawing Activity

Draw the sun and the clouds at the top of the page using shapes and lines.
In the past, people measured using their bodies. Let’s learn 2 ways:

- How many digits is 1 handspan?
- Which other body parts can we use to measure things?

How many digits is your drawing sheet? Use your finger to find out!

_____ digits

_____ digits

Draw the outline of your friend’s body.

Measure the following using handspans:

- Hand Length
- Leg Length
- Full Body Length
Day 3  Project-Based Learning

Beauty in Shapes

Let us practise drawing shapes! Trace the following:

Identify various shapes in the alphabet!

Drawing Activity

• Draw a house using rectangles and squares.

You can add details:
• Door
• Windows
• Trees

• Make 2 potted plants too!
Mindfulness

Sunny Side

- Take 3 deep breaths.
- Close your eyes and think of all the things that make you happy.

What comes to your mind?
Draw them inside the sun below.
Add more ideas and details to your drawing in any shape of your choice. Examples:

Grass  Birds  Animals  Car

Let's Revise! Look at this picture. Count the number of:

- Triangles
- Rectangles
- Squares
- Circles
Shape Matching

Match the object to its shape.

Draw objects around you that have these shapes too!
Day 5
Project-Based Learning

Beauty in Shapes

Presenting Your Drawing

Show your final drawing to your family and friends.

Add anything they want you to add using various shapes.

How many of each shape can you see in your drawing?

Circle

Square

Triangle

Rectangle

Draw a star for yourself for completing your drawing!

Try this! Can you draw birds using shapes?
This is the Shapes Family. In their town, there is a Lantern Competition.

The Shapes are getting ready for it. Circle and his sister, Triangle, got to work.

Circle made a lantern with circles.

Triangle made one with triangles.
Who Will Win?

Mr. Square and Mrs. Rectangle said, “Isn’t it boring to use the same shapes all the time?”

“Let us try something new!” said Circle.

Together, they made a lantern with circles and triangles.

Mr. Square loved the new lanterns. Who do you think won the competition?

• Name the characters in the story.
• Draw your own lantern using shapes.
Weekly Reflection

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Week 4 Overview

Patterns Everywhere

1. Complete the Pattern
   Observe and continue different patterns.

2. Shape Patterns
   Explore patterns with different shapes.

3. Free Flow
   Create shapes and patterns with your hands.

4. Pattern Challenge
   Explore patterns through a game.

5. Story Time
   Explore patterns with Paul, the Pattern Detective.

Materials Needed

- Paper
- Pencil
Patterns Everywhere

How can patterns help us understand the world?

Patterns are things, numbers, or shapes that repeat.

Circle what will come next in these patterns.

Patterns in Life

Days and nights repeat and happen regularly as a pattern. What are some other patterns you see daily? Draw them!
Complete the Pattern

Draw what will come next in these patterns.

![Pattern Illustrations]
Patterns in Nature

Name and match the animal with the pattern on their skin.

Find 3 patterns in nature and draw them.

Patterns in our Clothes

Observe the shapes and designs that repeat in your clothes or objects around you. Draw at least three such patterns in the boxes below.

Example
Shape Patterns

Draw the missing shapes in the following patterns

Create a pattern using any 2 shapes. You can draw these patterns or find small objects around you to create your own real life pattern by arranging the
Patterns in Music

Which is your favourite song? Sing it out loud with your family. Can you identify a pattern in it?

Let’s make music based on the code!

Snap your fingers.  
Clap your hands.  
Stomp your feet.  
Tap your thighs.

Try these patterns!
Day 3  Mindfulness

Free Flow

Scribble freely inside these boxes.

with your left hand

with your right hand

Do you see any patterns?
Day 4  Project-Based Learning

Patterns Everywhere

Make a pattern with any 3 items in your home.

Example:

![Pattern Images]

What comes next in these letter patterns?

A B A B A B
L M M L M M
P P Q P P Q

What comes next in these number patterns?

1 0 1 0 1 0 1
2 3 5 2 3 5
5 9 2 5 9 2
21 7 21 7 21
Pattern Challenge

Game Set-Up
Paper and Pen OR
Sand / Mud / Flour to draw patterns on.

How to Play

• Player 1 draws any pattern using shapes.
• Player 2 must continue the pattern correctly.
• They earn a point if it is correct.

Can you complete my pattern?

Is this correct?
Exercise/Dance Patterns

Give a number code to 5 different body movements.

Example:

1  2  3  4  5
Jumping+Jack  Kangaroo+Jump  Kick  Kneel  Bend

Make 3 of your own exercise patterns! Example:

Repeat each pattern 4 times.

4  5  ...  
3  3  2  ... 
1  2  3  4  ... 

You can also choreograph a dance routine to a song which follows a certain pattern of steps! Teach the exercise/dance patterns to your friends and family.

• Did they enjoy the exercise/dance?
• Were they able to follow the pattern?
Paul loves searching for patterns. “I am going to be a pattern detective today! Let’s go find patterns!” said Paul.

Paul found a pattern hanging on the tree. It is called a hive and bees live in it. It is made up of many hexagons stuck to each other. A hexagon is a shape with six sides.

Before going inside the house, he notices that the bricks of house make a pattern.

The bricks are brown. What is the shape of the brick?
Inside the house, Paul saw a pattern on the carpet.
The carpet’s colour is _______.

He went to the kitchen and saw a pattern on the table.
“What is this fruit?” Paul asked his Mom. “It is a __________,” she said.

The next day at school, he told his friends all about the patterns he found.
“Join me today! Let’s all be pattern detectives!” said Paul.

• Name the different places where Paul saw patterns.
• Draw your favourite pattern.
Weekly Reflection

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What are some new things I learned?

If you liked this, go to our IFERB website for hundreds of more such resources. Visit https://resources.educationaboveall.org
CERTIFICATE OF COMPLETION

This certificate is awarded to

for the successful completion of the Numeracy workbook.

Facilitator
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Pg. 23, 35, and 48: SEL Activities designed by Dream A Dream, India.


Pg. 52, 53: Pranav, The Pattern Detective (English), Written by Aditya Swaminathan Illustrated by Jemma Jose, Re-levelled and re-named by EAA, published by Pratham Books (© Pratham Books, 2006) under a CC BY 4.0 license on StoryWeaver.