## education | التعليم <br> فوق all

# Math Games 

Active and fun games to enhance numeracy skills


For more math games please access our
Math Games Catalog by scanning the QR code.

## Note to the Facilitator

This book has $\mathbf{2 0}$ Math games designed to be physically engaging while also practicing math concepts. Each game has the following components:


- Get children to think and discuss the leading question.
- Teach simple concepts such as English numbers, shapes, etc. before starting the game, whenever needed.
- Children can practice numbers and concepts in Pashto/ Dari but introduce English as much as possible.
- Adjust the rules of the game depending on the children's age and levels.
- Encourage older children to facilitate games for the younger children.
- Repeat games over time and try new variations too!


## Pashto

Numbers


| Dari/Farsi |  | 1 | r | $\mu$ | ${ }^{c}$ | 0 | 9 | V | 1 |  |  |
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## Progress Tracker

Tick ( $\checkmark$ ) the boxes when you complete an activity.

Done once


2 to 4 times 5+ times


| 1 | Line Up |  |  |  |
| :---: | :--- | :--- | :--- | :--- |
| 2 | Ball Games |  |  |  |
| 3 | Jump for Math |  |  |  |
| 4 | Treasure Hunt |  |  |  |
| 5 | Bull's Eye |  |  |  |
| 6 | Bowl Them Over |  |  |  |
| 7 | Let's Make 10! |  |  |  |
| 8 | Number Relay |  |  |  |
| 9 | What Shape Are You? |  |  |  |
| 10 | Grouping Game |  |  |  |
| 11 | Toss Game |  |  |  |
| 12 | Coin's Luck |  |  |  |
| 13 | Puddle Jump |  |  |  |
| 14 | Hopscotch |  |  |  |
| 15 | Place Value Race |  |  |  |
| 16 | Goal, Goal! |  |  |  |
| 17 | Round and Run! |  |  |  |
| 18 | Who Says? |  |  |  |
| 19 | Shape Hunt |  |  |  |
| 20 | Hit The Target |  |  |  |

## Game 1 LINE UP!

## Can you line up in number order?

## Materials Needed

Paper and Pencil

## How to Play

- Make 2 or 3 teams of players.
- Each team member is given a number.
- The team must line up in the correct number order from small to big without talking.
- The first team to line up wins and runs to catch the players from other teams!
- Larger numbers for older kids.
- Challenge them to read numbers in English.



## Game 2 BALL GAMES

## Can you count to 10 ?

## Materials Needed

1 ball per pair of players

## How to Play

- Give each pair a ball / soft object.
- The pair throws and catches the ball.
- When players catch the ball, they count out loud.
- If the ball drops, start from the beginning.
- First team to get to 10 (or a larger limit) without dropping the ball wins!
- Partners try skip-counting.
- With a net in between, make 2 large teams and play the same game!



# Game 3 JUMP FOR MATH! aducation above all alالتقميعيع 

## Can you add numbers?

## Materials Needed <br> Paper and Pencil

## How to Play

- Write and lay out numbers on the floor
- Call out addition questions: " $1+2$ ".
- Players need to jump to the correct answer (3) on the floor. Give 1 point for the right answer.

- Try subtraction.
- Start the numbering from 2-digit numbers,



## Game 4 Treasure HuNT

## How many numbers can you find?

## Materials Needed Paper and Pencil

## How to Play

- Write out numbers from 1-10 on paper (repeat the numbers many times)
- Hide the papers in the common are/villa/compound.
- Have 2 or 3 teams look for the numbers.
- The team that finds one paper per player and orders themselves first from 1 to 10 correctly first, wins!
- To simplify, draw pictures of objects to count instead of actual numbers.
- Use larger, 2-digit numbers.



## Game 5

## Can you make number bonds?

## Materials Needed <br> Paper, Pencil and Pebbles

## How to Play

- Write out numbers from 1-10 on paper and place it on the ground far away from each other.
- Group players into 2 teams.
- Player take turns tossing the pebbles onto a number.
- Another player should toss the pebble to the number that should be added to the previous number to make the sum 10 and record the equation.

- The team with the most recorded equations in a given time limit (Eg: 5 minutes) wins the game!


## Game 6 BOWL THEM OVER <br> education <br> | الجوميع all

## Can you add numbers from 1-10?

## Materials Needed

Markers, Ball, 10 Plastic Bottles

## How to Play

- Write one number from 1-10 on the plastic bottles and lay them out as shown.
- Group the players into 2 teams
- Players take turns rolling the ball to knock down the bottles.
- Players add the numbers of the bottles they hit to get their score.
- Team with the highest score wins!



## Game 7 LET'S MAKE 10! $\begin{aligned} & \text { education } \\ & \text { all } \text { above } \\ & \text { فُوقِيع } \text { all }\end{aligned}$

## Can you make number bonds?

## Materials Needed

Pencil and Paper

## How to Play

- Divided the players into two groups.
- Each team gets one set of cards from 0-10.
- The 10 cards are divided between the players.
- Stand between the two teams and call out a number.
- The players from both teams with the number that adds to it to make $\mathbf{1 0}$ runs to the middle (7)
- First player to reach the middle gets a point!



## Game 8 NUMBER RELAY

## Can you say numbers in English?

## How to Play

- Divide the players into 2 groups.
- Get each player to bring one object they can easily carry.
- Mark the start and finish line.
- Each player stands at a certain distance from each other, like in a relay race, and carries one object.
- The first player says "One", runs to the $2^{\text {nd }}$ player and passes their object to them.
- The $2^{\text {nd }}$ player takes their object and carries their own and says "Two" before running to the $3^{\text {rd }}$ player.
- The first team to finish the race wins!

- If they miss saying the number or an object drops, they have to stop for 4 seconds.
- Practise skip-counting.



## Game 9 What Shape Are You?

## Do you know the names of shapes?

## Materials Needed

Pencil and Paper

## How to Play

- Draw shapes on paper cards and write their names in English. Go through it with the players.
- Divide the players into two teams.
- A player picks a card and acts out a shape.
- If the other team guesses the shape correctly by drawing it out, they get a point! Earn a bonus point if they say the name of the shape in English.


Triangle



Square



## Game 10 GROUPING GAME

## Can you divide numbers?

## Materials Needed Music

## How to Play

- Play music and have the players move/dance around.
- When the music stops, call out a number.
- The players group themselves according to the number called out.
- Any group with an incorrect number of players is out.
- Encourage older learners to write the equation.
- The last pair of players left win!

$$
6 \div 3=2
$$



## Game 11 TOSS GAME

## Can you add numbers from 1-15?

## Materials Needed

Numbered Paper Cups, Paper Ball

## How to Play

- Players take turns tossing the paper ball into the numbered cups from a distance.
- Once the ball lands in the cup twice, players add up the two numbers to get their score.
- The player with the highest score wins!
- To simplify, learners only identify the larger number.
- Older learners can multiply or subtract numbers.


## Game 12 COIN'S LUCK

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## What do you know about probability?

## Materials Needed Coin

## How to Play

- Players are divided into two teams.
- Players take turns to toss the coin.

If it lands on heads, team 1 jumps a step forward. If it lands on tails, team 2 jumps a step forward.

- The first team to reach the finish line wins!
- Repeat this game and discuss if it's better to be heads or tails.



## Game 13 PUDDLE JUMP

Can you arrange numbers in ascending order?

## Materials Needed

Paper and Marker or Chalk

## How to Play

- Write numbers on paper or on the ground using chalk. They should be at a jumping distance from one another.
- Players have to jump from one "puddle" to another in ascending order of the numbers. (small to big).
- Record how much time each player takes. The fastest player wins!
- Include operations for older learners. (4+2,5-3, etc.) Play in teams. Each team sets up the "puddles" for the other.



# Game 14 

## Do you know how to multiply numbers?

Materials Needed 1 Pebble, Chalk

## How to Play

- Use chalk to draw out a hopscotch game as shown below and write numbers in each box
- Players toss the pebble onto a number.
- Give an operation: "(The number) $\times 2=$ $\qquad$
- The player must answer correctly and jump through the squares to get a point.
- To simplify, give easier operations (<, >, + , -)



## Game 15 Place Value Race

Do you know numbers from 100-999?

## How to Play

- Divide players into groups of 3
- Call and write out a 3-digit number (Eg: 232)
- Teams show the number on their fingers like this:

- The first team to hold up the correct numbers in the correct order and says the number out loud wins a point!
- Line up number cards from 0 to 9 (multiple sets) at a certain distance. Team members need to run and pick up the card to form the number.


## Game 16 <br> GOAL, GOAL!

## How fast can you add and multiply?

Materials Needed Football and a wall, Markers and Paper

## How to Play

- Split the group into 2 equal teams.
- On the wall, stick numbers at different heights and distances.
- Players take turns to kick the ball to a number and keep adding them for the score.
- The opposite team can have a goalie to stop the ball from reaching the number.
- The team with the highest score wins!

Play an actual game of football and try to get as many points as possible by kicking the ball to the numbers!


## Game 17 ROUND AND RUN!

## Can you round numbers to the nearest 10 ?

Materials Needed

Paper and Marker

## How to Play

- Designate locations for $10,20,30,40,50,60,70,80$ and 90 (Make signs using paper and a marker.)
- Call out a number (e.g., 33)
- Players must run to the nearest 10.
- The first player to run to the correct location (30) gets 1 point.
- The player with the most points wins!
- Try the same game with the nearest 100 s!



## Game 18 WHO SAYS?

## Do you know numbers from 1-50?

## How to Play

- Players sit in a circle.
- Players take turns to call out any number from 1 to 50.
(Eg: 12)
- The first player to jump (or do any other action you collectively decide) says a number before (11) and after (13) the number called out.
- If said correctly, they get a point.
- The player with the most points wins!
- Older learners can perform other operations (Ex: multiple by 3 , add 15 , etc.) on the number called out.


## 29, 31



## Game 19 SHAPE HUNT

## Can you identify shapes around you?

## How to Play

- Divide the players into 2 teams.
- Call out a shape or draw it out (Eg: Rectangle)
- Teams run and bring as many objects that have that shape as possible within a time limit.
(Eg: Box, Book, Tray, etc.)
- The team with the most number of objects earns a point.
- Repeat the activity with different shapes.
- To simplify, call out numbers and players bring that many objects.
- For Older Learners, teach 3D shapes and do the activity.

2D Shapes


Rectangle


Square


Circle


Triangle


Oval
3D Shapes


Cuboid


Cube


Sphere


Cone


Cylinder

## Game 20 HIT THE TARGET

## Can record data using tally marks?

## Materials Needed

Marker and Paper/Chalk/Tape, Pebble

## How to Play

- Make a target, as shown, on the ground. (Use tape, chalk, or paper.)
- Divide the players into 2 teams.


| TARGET TOSS |  |  |
| :---: | :--- | :--- |
| YELOOW | NAI | 6 |
| BLUE | MHAIII | 8 |
| RED | MN I | 6 |

- Make 3 columns and write the names of the colours. Give this paper to each team.
- Players from each team take turns to toss the pebble to the target from a distance and mark the tally on their team's sheet.
- Teams calculate the total tosses and multiply the colour value to get their score (Red=10, Blue = 2, Yellow=1)
- The team with the most points wins!

