



Teaching Script: Mastering Multiplication Magic - The 8 Times Table

Lesson Overview:

Grade Level: Year 1-2 (Age 5+)

Duration: 60 minutes

Topic: Multiplication - 8 Times Table

Learning Objectives:

- Understand and recall multiplication facts for the 8 times table
- Recognize patterns within the 8 times table
- Apply multiplication knowledge to solve practical problems

- ✓ Counters/cubes (80 per student)
- ✓ Number lines marked in 8s
- ✓ '8 Times Table' song
- ✓ Differentiated worksheets
- ✓ Mini whiteboards and pens
- ✓ Interactive whiteboard
- ✓ Array cards
- ✓ Visual aids

Pre-Lesson Setup (Before Students Arrive)

Room Preparation:

- Arrange tables in groups of 4-6 students
- Set up interactive whiteboard with multiplication presentation
- Place resource packs at each table (differentiated)
- Create space on carpet for opening activity
- Display 8 times table anchor chart

Resource Organization Tips:

- Color-code differentiated materials (Red=Lower, Yellow=Middle, Green=Higher)
- Pre-count manipulatives into containers
- Have spare materials readily accessible
- Test audio equipment for multiplication song

Introduction (0-5 minutes)

"Good morning mathematicians! Today we're going to become multiplication wizards with the magical number 8!"

Gather students on carpet in a circle formation

Opening Sequence:

1. Play '8 Times Table' song

Students join in with actions:

- Clap on multiples of 8
- Jump on every third multiple
- Turn around on every fourth multiple

2. Quick Fire Warm-Up:

"Let's count together in 8s. Watch my actions carefully!"

Use exaggerated movements while counting: 8, 16, 24, 32, 40...

Differentiated Participation:

- Lower: Focus on actions and joining in with counting
- Middle: Count independently while performing actions
- Higher: Predict next numbers and explain patterns

Concrete Exploration Phase (5-15 minutes)

"Now we're going to explore how multiplication works using our special counting materials. Remember, multiplication is all about making equal groups!"

Teaching Sequence:

1. Model with Large Materials (2 minutes)

Use oversized counters on visualizer:

- Show making one group of 8
- Add second group of 8
- Demonstrate counting: "8, 16"
- Write number sentence: $2 \times 8 = 16$

2. Guided Practice (4 minutes)

"Let's make groups of 8 together. Show me what 3 groups of 8 looks like."

Monitor and support as students create groups

3. Independent Exploration (4 minutes)

"Now it's your turn! Use your counters to show me different multiplication facts for 8."

Essential Vocabulary:

- Groups of
- Equal groups
- Times
- Multiply
- Arrays

Watch for:

- Unequal group sizes
- Counting errors
- Confusion between number of groups and objects per group

Success Indicators:

- Students can create equal groups independently
- Correct use of multiplication vocabulary
- Accurate counting of total objects

Pictorial Representation Phase (15-25 minutes)

"We're going to move from using real objects to drawing pictures that show multiplication by 8. This will help us solve problems more quickly!"

Teaching Sequence:

1. Array Introduction (5 minutes)

Display array cards on interactive whiteboard:

- Show 4×8 array
- Demonstrate counting rows
- Highlight columns of 8

2. Quick Draw Practice (5 minutes)

"Watch how I draw circles in groups of 8. Let's practice drawing together!"

 Array Example

$$5 \times 8 = 40$$

Scaffolded Support:

- Template grids for lower ability
- Dot-to-dot arrays for middle ability
- Independent array creation for higher ability

Pattern Discovery (25-35 minutes)

"Let's become pattern detectives! The 8 times table has some amazing patterns that will help us remember our facts."

Key Patterns to Explore:

1. Double-Double Pattern
 - $2 \times 8 = 16$ (double 8)
 - $4 \times 8 = 32$ (double 16)
 - $8 \times 8 = 64$ (double 32)
2. Digit Sum Pattern
 - $3 \times 8 = 24$ ($2 + 4 = 6$)
 - $4 \times 8 = 32$ ($3 + 2 = 5$)
 - $5 \times 8 = 40$ ($4 + 0 = 4$)

Abstract Practice Phase (35-45 minutes)

"Now that we understand how multiplication by 8 works, let's practice solving different types of problems!"

Station Activities (3 minutes per station):

1. Speed Facts Station
 - o Flash cards with multiplication facts
 - o Partner quiz format
 - o Record personal best times
2. Word Problem Station

"There are 8 cookies in each pack. How many cookies are in 6 packs?"
3. Digital Practice Station
 - o Interactive multiplication games
 - o Online quizzes
 - o Virtual manipulatives
4. Creation Station
 - o Create own word problems
 - o Draw multiplication stories
 - o Make fact family posters

Progress Monitoring:

- Use observation checklist during rotations
- Quick individual check-ins
- Peer assessment opportunities

Application and Problem Solving (45-55 minutes)

"Let's put our 8 times table knowledge to work solving real-world problems!"

Contextual Problems:

Scenario 1: School Sports Day

Students organize runners into 8 lanes for different races. Calculate total participants for various heats.

Scenario 2: School Garden

Plant bulbs in rows of 8. Determine total bulbs needed for different garden sizes.

Scenario 3: Art Project

Create patterns using 8 colored squares. Calculate materials needed for multiple patterns.

Plenary and Assessment (55-60 minutes)

"Let's celebrate what we've learned about the 8 times table!"

Quick Assessment Methods:

1. Show Me Boards
Students write answers to quick-fire questions
2. Stand Up/Sit Down
Students respond to true/false statements about $8\times$
3. Exit Ticket

Complete:

- One thing I learned...
- One thing I found tricky...
- One question I still have...

Home Learning Activities:

- Create an 8 times table poster
- Practice online multiplication games
- Find examples of groups of 8 at home
- Complete practice worksheet

Preparation for Next Lesson:

- Review exit tickets
- Adjust groupings based on assessment
- Prepare additional support materials
- Plan extension activities

Assessment and Plenary (Final 10 minutes)

"Let's see what multiplication wizards you've become!"

Quick Assessment:

1. Show Me Boards Activity

Students write answers to rapid questions:

- What is 6×8 ?
- How many groups of 8 make 40?
- What's double 4×8 ?

2. Self-Assessment

"Show me with your thumbs how confident you feel with the 8 times table."

Learning Review:

- What patterns did we notice in the 8 times table?
- How can we use doubling to help us?
- What strategies helped us remember the facts?

Extension Activities:

- Practice 8 times table with online games
- Create multiplication fact cards
- Look for groups of 8 in everyday life