ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	VIII	**Subject**	Mathematics	**Plan**	

Period	1	**Chapter:4**	Cubes and Cube-roots

Sub-Concept	Introduction, Perfect Cube
Teaching Aids to be used	Audio-Visual Aids with **CCRE**

Learning outcomes	➢ Students will able to know about properties of cubes.

SLNO	**Step Wise (What to be done)**
1. Introduction	Brief introduction about perfect cubes.
2.Pre	Introduction to perfect cubes.
	https://www.youtube.com/watch?v=tWVGLSznWTs(0:37)
3.Evl	**Evaluation Questions** Ex 4A –1 (ii),2(iii)
4.HW	Exercise 4(A) -1 to 5 and AHA as follows
5.AQ	**1. By what smallest number should 3600 be multiplied, so that the quotient is a perfect cube. Also, find the cube root of the quotient.**
	2. If one side of a cube is 15m in Length, then find its volume.

**CCRE- common class room equipment

**AHA- Additional Home Assignments (to be given to toppers)

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Class	VIII	**Subject**	Mathematics	**Plan**	
Period	2	**Chapter:4**	Cubes and Cube-roots		
Sub-Concept			More problem solving on the above concept		
Teaching Aids to be used			Audio-Visual Aids with **CCRE**		
Learning outcomes	➢ Students will be able to find the cube root of a perfect cube using prime factorization method.				

SLNO	**Step Wise (What to be done)**
1.Int	To find the cube root using prime factorisation method
2.Pre	Find the least number by which 1323 must be multiplied so that the product is a perfect cube.
	Find the smallest number by which 8768 must be divided so that the quotient is a perfect cube.
	With what least number must 8640 be divided so that the quotient is a perfect cube?
3.Evl	**Evaluation Question:** Ex. 4(A) Q. No. 6
4.HW	Exercise 4(A) -9 to 11 and AHA as follows
5.AQ	1. **Parikshit makes a cuboid of plasticine of sides 5 cm, 2 cm, 5 cm. How many such cuboids will he need to form a cube?**
	2. **Find the smallest number by which 128 must be divided to obtain a perfect cube.**
	3. **Is 392 a perfect cube? If not, find the smallest natural number by which 392 should be multiplied so that the product is a perfect cube.**

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Class	VIII	**Subject**	Mathematics	**Plan**	

Period	3	**Chapter:4**	Cubes and Cube-roots

Sub-Concept	Cube-roots, Find the cube roots by factorisation
Teaching Aids to be used	Audio-Visual Aids with **CCRE**

Learning outcomes	➢ Students will be able to find the cube root of a negative perfect cube using prime factorization method.

SLNO	**Step Wise (What to be done)**
1.Int	Cube-root of a negative perfect cube. https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-roots/v/finding-cube-roots(4:17)
2.Pre	Find the smallest number by which 26244 may be divided so that the quotient is a perfect cube.
	Students may be asked to explain the answers and to write on board.
	For slow learners all the answers to be written on the black board.
3.HW	Exercise 4(B) Q No- 6 and 7

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Class	VIII	**Subject**	Mathematics	**Plan for**	
Period	4	**Chapter:4**	Cubes and Cube-roots		
Sub-Concept			Recapitulation of the Chapter		
Teaching Aids to be used			Audio-Visual Aids with **CCRE**		
Learning outcomes			➢ Students will able to know about properties of cubes ➢ Students will be able to find the cube root of a perfect cube using prime factorization method. ➢ Students will be able to find the cube root of a negative perfect cube using prime factorization method.		

SLNO	**Step Wise (What to be done)**
1.int	**By what smallest number should 3600 be multiplied, so that the quotient is a perfect cube? Also, find the cube root of the quotient**
	Find the smallest number by which 128 must be divided to obtain a perfect cube.
3.Evl	Evaluation Question Ex. 4(B) Q. No. 5
4.HW	Exercise 4(B)
5.AQ	1. Using prime factorisation, find the cube root of 5832.
	2. If the surface area of a cube is 486 cm^2, find its volume.

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