

Student Teacher's Name: <u>Retwode Reshma S.</u>		Roll No. <u>71</u>
छात्राध्यापकाचे नांव:		हजेरी क्र.: <u>71</u>
School Name: <u>Navonmesh vidyamandir chakan</u>		Lesson No.
शाळेचे नांव:		पाठ क्र.:
Subject: <u>Science</u>	Unit: <u>Force and pressure</u>	Sub-Unit: <u>contact and non-contact forces</u>
विषय:	घटक:	उपघटक:
Date: _____	Time: _____	Std: <u>8th</u>
दिनांक:	वेळ:	इयत्ता:
Required Previous Knowledge: <u>students should be known force and pressure.</u>		
अपेक्षित पूर्वज्ञान:		
Teaching Method: <u>explanation, demonstration.</u>		
अध्यापन पद्धती:		
Values: <u>scientific temper.</u>		
मूल्ये:		
Core Elements: <u>Inculcation of scientific temper.</u>		
गाभाभूत घटक:		
Life Skills: <u>creative thinking, self awareness.</u>		
जीवन कौशल्ये:		
Teaching Aids: _____		
नियोजित शैक्षणिक साहित्य: _____		

फलक लेखन(Black Board Wtitting)

Date - _____	Sub - science	Std - 8th.
Topic - Force and pressure.		
Newton's first law of motion - A stationary object on which no force is acting remains stationary. An object in motion continues to move with the same speed and direction when no force is acting on the object.	contact force - a direct contact of the object or via one more object such a force is called "contact force."	

Date: / /
दिनांक: / /

Signature of Guide Professor
मार्गदर्शक प्राध्यापकांची स्वाक्षरी

Steps of Lesson पाठाच्या पायऱ्या	Content आशय / पाठ्यमुद्दे	Objectives & Specifications उद्दिष्टे व स्पष्टीकरणे
INTRODUCTION		<u>Knowledge</u> - Teacher asks some questions base on previous knowledge.
Statement of Aim	"Force And Pressure"	To clearly the intention or goal of the lesson.
Presentation	contact Force - a direct contact of the object or via one more object such a force is called contact force. Non-contact force - a force is applied between two object even if the two object are not in contact such a force is called Non-contact force.	<u>Understanding</u> students are able to given an answer

Steps of Lesson पाठाच्या पायऱ्या	Content आशय/पाठ्यमुद्दे	Objectives & Specifications उद्दिष्टे व स्पष्टीकरणे
	Teacher ask the question. 1) What is a force. 2) What is Newton's first law of motion.	students tries to given an answer in their own word.
	Teacher write the title on board.	students are attentive.
	Teacher explain the contact force and also the non-contact force. Teacher also explain the examples of contact force and Non-contact force.	students listen carefully. students listen carefully.

Teacher's activity शिक्षक कृती	Student's activity विद्यार्थी कृती	Teaching aids पाठ्याचा पायऱ्या
Recapitulation	To recall the important point of the lesson.	
Evaluation	What is the force? Write the type of force.	knowledge- students able to write the answer.
Homework	Write the some examples of contact force and non contact force. Write definition of contact & Non-contact force.	skill- students write the answer skillfully.

Teacher's activity शिक्षक कृती	Student's activity विद्यार्थी कृती	Teaching aids पाठाच्या पायऱ्या
Teacher recapitulate the all the important point of the lesson.	students notedown the all important point in their notebook.	
Teacher give the some questions on topic	students write it in their notebook.	
Teacher write the some questions on blackboard for Homework.	students write the questions in their notebook	

Method I - Question Paper

Date -

Sub- Science

Mark-20

Q.1) Fill in the blank.

4M

- i) The S.I unit of force is _____
- ii) An electron carries a _____ charge.
- iii) ~~The~~ electron shell _____ is nearest nucleus.
- iv) The air pressure on our body is equal to _____ pressure.

Q.2) Match the pair.

4M

- | A | B |
|------------------|----------------------|
| i) Proton | Atmospheric pressure |
| ii) Electron | Negatively charge |
| iii) Neutron | Positive charge |
| iv) Hecto pascal | Neutral |

Q.3) Give scientific reasons (any-3)

6M

- i) Atom is electrically Neutral.
- ii) Fruits can easily be cut with sharp knife.
- iii) The wall of a dam is broad at base.
- iv) ~~Atom~~ mass number is whole number.

Q.4) Answer the following (any-2)

6M

- i) What is meant by atomic mass number? explain how the atomic number & mass number of carbon are 6 & 12 respectively.
- ii) The density of metal is $10.8 \times 10^3 \text{ kg/m}^3$. Find the relative density of metal.
- iii) A plastic cube is released in water. will it sink or come to the surface of water?

Method I - Answer Key

Q.1] Fill in the blank.

- i) Newton
- ii) Negative charge
- iii) K
- iv) atmospheric pressure.

Q.2] Match the pair.

- i) Proton $\rightarrow$ positive charge
- ii) electron $\rightarrow$ negative charge
- iii) Neutron $\rightarrow$ Neutral
- iv) Hectopascal $\rightarrow$ Atmospheric pressure.

Q.3] Give the scientific reasons.

i) $\rightarrow$ The total negative charge of electron is equal to the positive charge on the nucleus as the opposite charge are balance to each other therefore the atom is electrically neutral.

ii) $\rightarrow$ Fruits can easily be cut with sharp knife. The effect of given force varies inversely as the area of the surface on which the force is applied. The less surface area greater the effect of force. hence it is easy to cut.

iii) $\rightarrow$ The wall of dam is broad at with base. The pressure at a point in a liquid is

proportional to the height of the liquid column above it. hence the pressure of water in a dam is much greater at the bottom of dam than at the top.

iv) $\rightarrow$ The total number of proton & Neutron in the nucleus of the atom is called atomic mass Number. As proton & neutron are whole number therefore the atomic mass number is also whole number.

Q.4]

solve any two.

1) $\rightarrow$ The total No. of p. & n in the nucleus of the atom is called the atomic mass number. The atomic number i.e. the proton number of carbon is 6 & the mass number is total number of proton & Neutron in carbon i.e. 6 proton + 6 Neutron = 12.

2) $\rightarrow$ given, density = $10.8 \times 10^3 \text{ kg/m}^3$
density of water = 10^3 kg/m^3

$$\therefore \text{Relative density} = \frac{\text{density of substance}}{\text{density of water.}}$$
$$= \frac{10.8 \times 10^3}{10^3} = \underline{\underline{10.8}}$$

3) $\rightarrow$ It will be come to the surface of water.

This is because its density is less than that of water when it floats the unbalanced force acting on it is zero.

चाचणीची गुण तालिका (Result Of Unit Test)

Sr.No	Students Name	Marks	Grade
1)	Aagarkar Shravani	14	B ₂
2)	Bachute Janhvi	16	A ₂
3)	Bansode Priya	17	A ₂
4)	✓ Chavan Trushna	15	B ₂
5)	Choughule Aarti	16	A ₂
6)	Chikhale Shrushti	17	A ₂
7)	Jadhav Snehal	18	A ₂
8)	Karpe Anushka	16	A ₂
9)	Pathare Divya	14	B ₂
10)	Wagh Chaitali	15	B ₂
11)	✓ Nanekar Manish	16	A ₂
12)	Mungase Sairaj	17	A ₂
13)	Mishra Sarthak	17	A ₂
14)	Mahajan Dhiraj	16	A ₂
15)	Kashid Soham	15	B ₂
16)	Kandage Chaitany	16	A ₂
17)	Gore Utkarsh.	13	C ₂
18)	Gadhavi Tejesh.	12	C ₂

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COLLEGE OF EDUCATION, CHAKAN DIST. PUNE

B. Ed. First Year

Name of the student:- Mr. /Ms. Rekade Reshma Roll No:- 71

Activity No2) : Development of lesson plans to cater the diverse needs of students.

EVALUATION SCHEME (Out of 50 Marks)

Rating scale: 1) Unsatisfactory 2) Average 3) Satisfactory 4) Good 5) Excellent

Sr.No.	Criteria	1	2	3	4	5
1	Neat, correct and complete lesson note				✓	
2	Previous knowledge and aims of the lesson				✓	
3	Objectives and specification				✓	
4	Consideration of student with diverse needs				✓	
5	Introduction attractive based on previous knowledge				✓	
6	Presentation –Suitable learning experiences and proper teaching aids			✓		
7	Space for student with special needs			✓		
8	Define role of student and their participation				✓	
9	Expected responses of student			✓		
10	Evaluation strategies				✓	
Total Marks- Out of 50		37				

Qualitative Feedback (If Any): _____


Sign of Professor In charge

नवसह्याद्री चॅरीटेबल ट्रस्टचे, अध्यापक महाविद्यालय (बी.एड.), चाकण
Block Teaching – LESSON NOTE , वर्ष २०२ -२०२

Student Teacher's Name: <u>Retwade Reshma S.</u>		Roll No. <u>71</u>
छात्राध्यापकाचे नांव:		हजेरी क्र.:
School Name: <u>Navonmesh vidyamandir chakan</u>		Lesson No.
शाळेचे नांव:		पाठ क्र.:
Subject: <u>Math</u>	Unit: <u>operation on fraction</u>	Sub-Unit: <u>conversion mix to improper fraction.</u>
विषय:	घटक:	उपघटक:
Date: _____	Time: _____	Std: <u>6th.</u>
दिनांक:	वेळ:	इयत्ता:
Required Previous Knowledge: <u>students should know a fraction & its operation.</u>		
अपेक्षित पूर्वज्ञान:		
Teaching Method: <u>explanation method.</u>		
अध्यापन पद्धती:		
Values: _____		
मूल्ये: <u>mathematical attitude.</u>		
Core Elements: _____		
गाभाभूत घटक: <u>correctness.</u>		
Life Skills: _____		
जीवन कौशल्ये: <u>creative thinking, problem solving</u>		
Teaching Aids: _____		
नियोजित शैक्षणिक साहित्य: <u>board, chart</u>		

फलक लेखन(Black Board Wtitting)

Date- _____	sub- math	std- 6th.
	topic - operation on fraction.	
convert mix fraction into improper fraction.		
$3 \frac{2}{5} = 3 + \frac{2}{5} = \frac{3}{1} + \frac{2}{5}$ $= \frac{3 \times 5}{1 \times 5} + \frac{2}{5}$ $= \frac{15}{5} + \frac{2}{5} = \frac{17}{5}$		divisor. 3 quotient $\frac{7}{2} = 2 \overline{) 7} \text{ - Dividend}$ $\underline{-6}$ 1 Remainder $= 3 \frac{1}{2}$

Date: / /
दिनांक: / /

Signature of Guide Professor
मार्गदर्शक प्राध्यापकांची स्वाक्षरी

Steps of Lesson पाठ्याच्या पायऱ्या	Content आशय/पाठ्यमुद्दे	Objectives & Specifications उद्दिष्टे व स्पष्टीकरणे
Introduction		Knowledge - Teacher asking some basic question base on lesson.
Statement of Aim	operation on fraction	clarify the goal of the lesson.
	If 7 apples are equally divided into 2 people then how many will each one get. $2 \overline{) 7} = 3 \frac{1}{2} = \frac{7}{2}$	understanding- students able to solving problem.
Presentation	1) $3 \frac{2}{5}$ convert improper fraction. $\Rightarrow 3 + \frac{2}{5} = \frac{3}{1} + \frac{2}{5}$ $= \frac{3 \times 5}{1 \times 5} + \frac{2}{5} = \frac{15}{5} + \frac{2}{5} = \frac{17}{5}$	skill- students solved skillfully.

Teacher's activity शिक्षक कृती	Student's activity विद्यार्थी कृती	Teaching aids पाठाच्या पायऱ्या
Teacher asks the What is mean the fraction	students tries to give an answer in their own word.	
Teacher write the aim of topic on board.	students observed it.	
Teacher explain 7 divided 2 then the answer 3 which called quotient. 2 is divisor & 7 is dividend. & 1 is Remainder. then. $\frac{7}{2} = 3 \frac{1}{2}$.	students observed it and listen carefully.	
	students write in their notebook.	

Method II – Question Paper

Date-

Sub- Math.

Std- 6th.

Mark- 20.

Q.1) Fill in the blanks.

3M

i) The sum of two opposite number is

ii) To divide a number by a fraction is to multiply it by the of the fraction.

iii) opposite number are same distance from in but opposite direction.

Q.2) A) Write the proper sign $>$ $<$ or $=$ in box 2M

i) -4 $\square$ 5

ii) 7 $\square$ 4

B) Write the reciprocal of the following number 2M

i) $\frac{11}{3} =$

ii) $2 =$

C) classify following numbers in positive number and negative number $\Rightarrow -5, +4, -2, 7$ 2M

Q.3) A) Solve any two.

i) $9 + (-3)$

ii) $(-5) + (-2)$

iii) $-7 + 2$

4M

B) convert into Improper fraction

4M

i) $7 \frac{2}{5}$

ii) $5 \frac{1}{6}$

C) Add any one. i) $5 \frac{1}{2} + 2 \frac{3}{4}$, ii) $6 \frac{1}{3} + 2 \frac{1}{3}$ 3

Method II - Answer Key

Sub - Math.

Q.1) Fill in the blanks.

i) $\rightarrow$ zero.ii) $\rightarrow$ Reciprocal.iii) $\rightarrow$ zero.

Q.2] A] Write the proper sign

i) $-4 < 5$

ii) $7 > 4$

B] Write Reciprocal of following number.

i) $\frac{11}{3} = \frac{3}{11}$

ii) $2 = \frac{1}{2}$

C] classify following Number as positive or negative number.

 $\Rightarrow$ Positive number - $+4, 7$ Negative number - $-2, -5$

Q.3] A] Solve any two

i) $9 + (-3) = 9 - 3 = \underline{6}$

ii) $(-5) + (-2) = -5 - 2 = \underline{-7}$

iii) $(-7) + 2 = -7 + 2 = \underline{-5}$

B convert into Improper fraction

i) $7 \frac{2}{5}$

$$= \frac{(5 \times 7) + 2}{5} = \frac{35 + 2}{5} = \frac{37}{5}$$

$$\text{ii) } 5 \frac{1}{6} = \frac{(6 \times 5) + 1}{6} = \frac{30 + 1}{6}$$

$$= \frac{31}{6}$$

c] Add any one

$$\text{i) } 5 \frac{1}{2} + 2 \frac{3}{4}$$

$$\Rightarrow \frac{(2 \times 5) + 1}{2} + \frac{(4 \times 2) + 3}{4}$$

$$= \frac{10 + 1}{2} + \frac{8 + 3}{4} = \frac{11}{2} + \frac{11}{4}$$

$$= \frac{11 \times 2}{2 \times 2} + \frac{11}{4} = \frac{22}{4} + \frac{11}{4}$$

$$= \frac{33}{4}$$

$$\text{ii) } 6 \frac{1}{3} + 2 \frac{1}{3}$$

$$= \frac{(3 \times 6) + 1}{3} + \frac{(3 \times 2) + 1}{3}$$

$$= \frac{18 + 1}{3} + \frac{6 + 1}{3} = \frac{19}{3} + \frac{7}{3}$$

$$= \frac{26}{3}$$

चाचणीची गुण तालिका (Result Of Unit Test)

Sr.No	Students Name	Marks	Grade
1)	Patil Janhavi	14	B2
2)	Wahule Vandana	16	B1
3)	Velwande Siddhi	14	B2
4)	Pandle Sai	15	B2
5)	Babbar Aryan	17	A2
6)	Bachute Aryan	16	B1
7)	Chaudhari Vaibhav	16	B1
8)	Chavan Yogiraj	17	A2
9)	Dalavi Samarth	18	A2
10)	Dhadage Sarvesh	19	A1
12)	Ekhe Rugved.	17	A2
13)	Patil Kalphesh	18	A2
14)	Padawal Swaraj	19	A1
15)	Mohite Dipali	17	A2
16)	Raut Gayatri	16	B1
17)	Pachpute Tanuja	18	A2
18)	Shete Anushka.	20	A1
19)	Gade Darshna.	16	B1
20)	Pawar Soham.	19	A1