Est.: 1980 Pho.: 08482-235209 +91-8147671269



#### **H.K.E. SOCIETY'S**

### BASAVESHWAR COLLEGE OF EDUCATION,



BVB CAMPUS, MANHALLI ROAD, BIDAR – 585 403 KARNATAKA, INDIA. (Recognized by SRC NCTE, New Delhi and Permanent Affiliated to Gulbarga University, Kalaburagi) E-Mail: principalbcebidar@hkes.edu.in, website: www.hkesbcoebidar.in

# CRITERION – II TEACHING LEARNING AND EVALUATION



2.4: Competency and Skill Development

2.4.1: Institution provides opportunities for developing competencies and skills in different functional areas through specially designed activities / experiences

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E-Mail: principalbcebidar@hkes.edu.in, website: www.hkesbcoebidar.in

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Sl. No.	Particulars
Ι	Preparing Individualized Educational Plan

IQAC Coordinator

H.K.E.S. Basaveshwar College of Education
BIDAR - 585 403 (Karnataka)

PRINCIPAL

RK E.S. Basaveshwar College

of Education, BIDAR

### H.K.E.Society's



BIDAR - 585403.

"A Study of the Problems faced by students in understanding solar system among 8<sup>th</sup> class students of Kittur Rani Chennamma Residential School Bidar"

Action Researcher:

Nazreen Sultana

Register No.:

U04H22E0035

Guide:

Principal

Dr. Santoshkumar Sajjan,

Dr. Mallikarjun C. Kankatte

Asst. Professor, IQAC Coordinator

DEPT. OF STUDIES AND RESEARCH IN EDUCATION GULBARGA UNIVERSITY, KALABURAGI-585106.

Action Research Report of Partial Completion of B.Ed Course

IOAC Coordinator

H.K.E.S. Basaveshwar College of Education BIDAR - 585 403 (Karnataka). AK.E.S.Basaveshwor College of Education, BIDA





### KALABURGI

DEPARTMENT OF STUDIES & RESEARCH IN EDUCATION, KALABURGI-585106

#### AND

HYDERABAD KARNATAKA EDUCATION SOCIETY'S BASAVESHWAR COLLEGE OF EDUCATION BIDAR-585 403

### **CERTIFICATE**

This is to certify that Mr./Mrs. Nazreen gullana of HKES
Basaveshwar College of Education, Bidar has satisfactorily completed the
Action Research on a study of the problem
faced by students in understanding solar system toning 8th in the subject. Action-Research.
subject
fulfillment of the B.Ed. Course, as prescribed by the Gulbarga University.
Kalaburagi
Incharge Lecturer TOAC Coordinator I.K.E.S.Basaveshwar College
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### KALABURGI

DEPARTMENT OF STUDIES & RESEARCH IN EDUCATION, KALABURGI-585106

#### AND

# HYDERABAD KARNATAKA EDUCATION SOCIETY'S BASAVESHWAR COLLEGE OF EDUCATION BIDAR-585 403

### DECLARATION

I, Mr./Mrs Nazrun Sultoma Declare that, it is the original
work carried out by me, under the guidance of Sri Santosh Kumar sajim
in the subject. ACHOO - Research entitled
Action-Research
for the fulfillment of Semester of the B.Ed. Course for the
academic year
Kalaburgi. It is also declare that, no part of full of it is submitted to any other
degree or course.
Bluttone
Student Signature

Place: Bidar

Date:

### GULBARGA



### UNIVERSITY

# KALABURGI

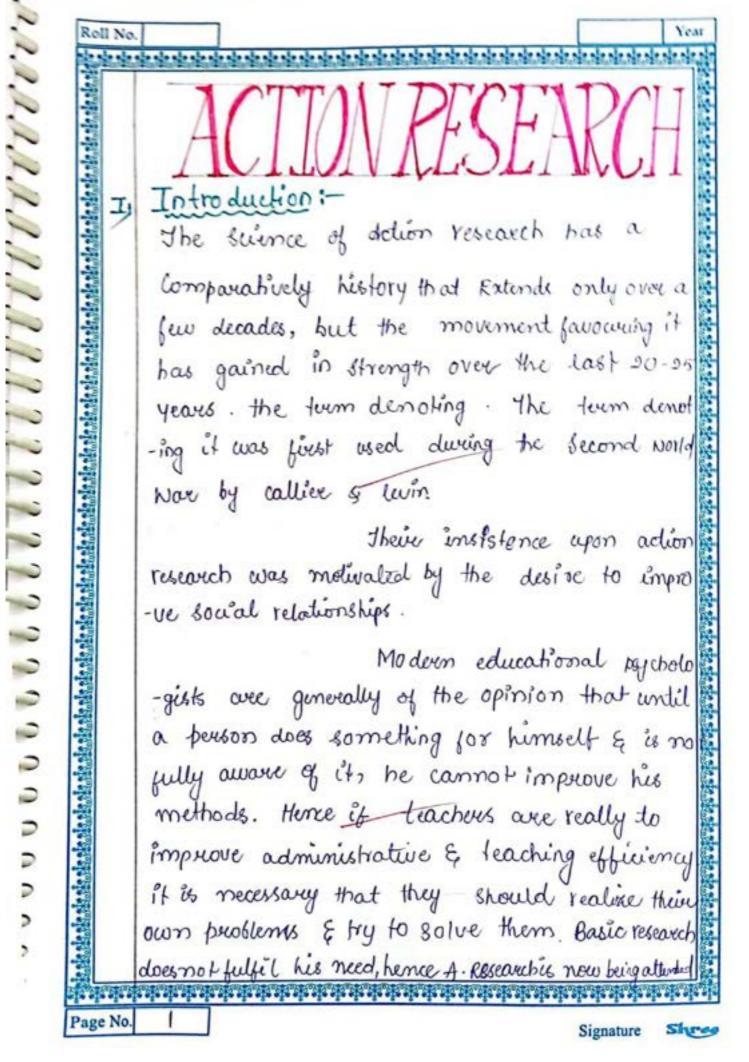
DEPARTMENT OF STUDIES & RESEARCH IN EDUCATION, KALABURGI-585106

#### AND

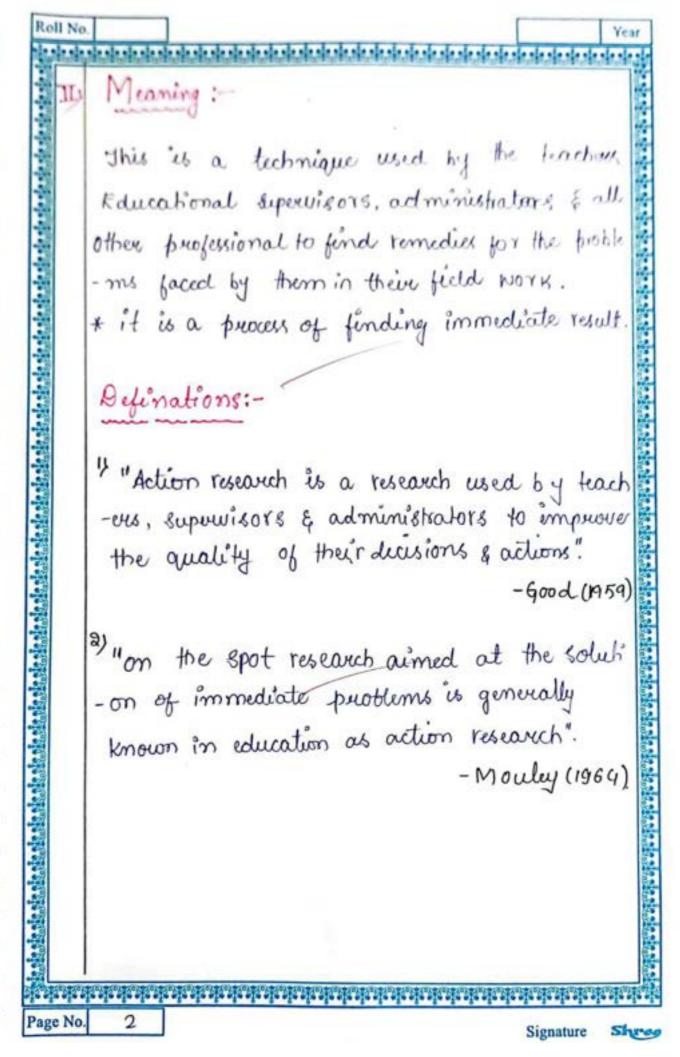
HYDERABAD KARNATAKA EDUCATION SOCIETY'S BASAVESHWAR COLLEGE OF EDUCATION BIDAR-585 403

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	TOAC Coordinator ALLES BESTON BY	AG

H.K.E.S. Basavestwick College of Education BIDAR - 565 403 (Karnat. • .)



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# Scope of Action research:

Theoretically the field of action research work us very navious & local. It deals with the publims of classroom steaching a school. the field for bain research is broad. it deals with the bain humbers of education & tacking Cearning si keation.

Action research is focused on immediate application, & not on the develop -ment of a theory, not upon general applicati it has placed its emphasis on a preterm hove a now in a local setting. many action research projects one conviced out in a dassroom by a single teacher.

The Emphasis on action resea - such is not on obtaining generalizable scientific Knowledge about educational Problems but on Obtaining knowledge concerning a specific local problem

**CS** CamScanner

Objectives of Action research: y To improve the practices going on presently in the Schools. remove the notion that educational Vesewich is the job of specialist only. 3) 40 make the teachers of school adminst ratous re-reauch minded. 4) 40 Auelop in the posishioners the required confidence 4 ability to covery on research for solving their own problems. To make the students, teach ers & education -al adminstratous more conscious about their problems & their immediate solutions 6, To make the school or Educational person -nel more cooperative & democratic in their world of work. To inculcate the desire attitude among the school personal for bring Excellence in there work. To make Environment of the school more conductive for effective teaching & leaving.

# Need of Action research:

Education is a process of bringing about a desirable change in behavior of child in terms of knowledge, skills, attitudes & values etc. for the effective organization of this process the teacher should in touch with new trends in education & tryout ideas, programmes Exprenentally for a scientific inquiry late their validity, utility & worth while new under school conditions.

Buside this a occative teacher has his own perception of a method or programme for imparting new knowledge & for developing proper concept, skills, values & attitude among children.

Action publishes in different assess in χI Schools - Examples: Action research being scientific method it solving immediate preoblems in the school satur it could fall into any of the tollowing broad overs: 1) Academic: classroom situation, porter methods of teaching, questioning, lack of study habits, does room dimate, Students disripline, problems of disable children. Social: late coming, not doing home work poor altendence, lack of co-operato of students, lack of physical amen - ities & the like. 3) curricular: Tent books, time bound syllabers, MLL completencies, lack of teacher hand-books & the like

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# XIV) Steps of Action research:

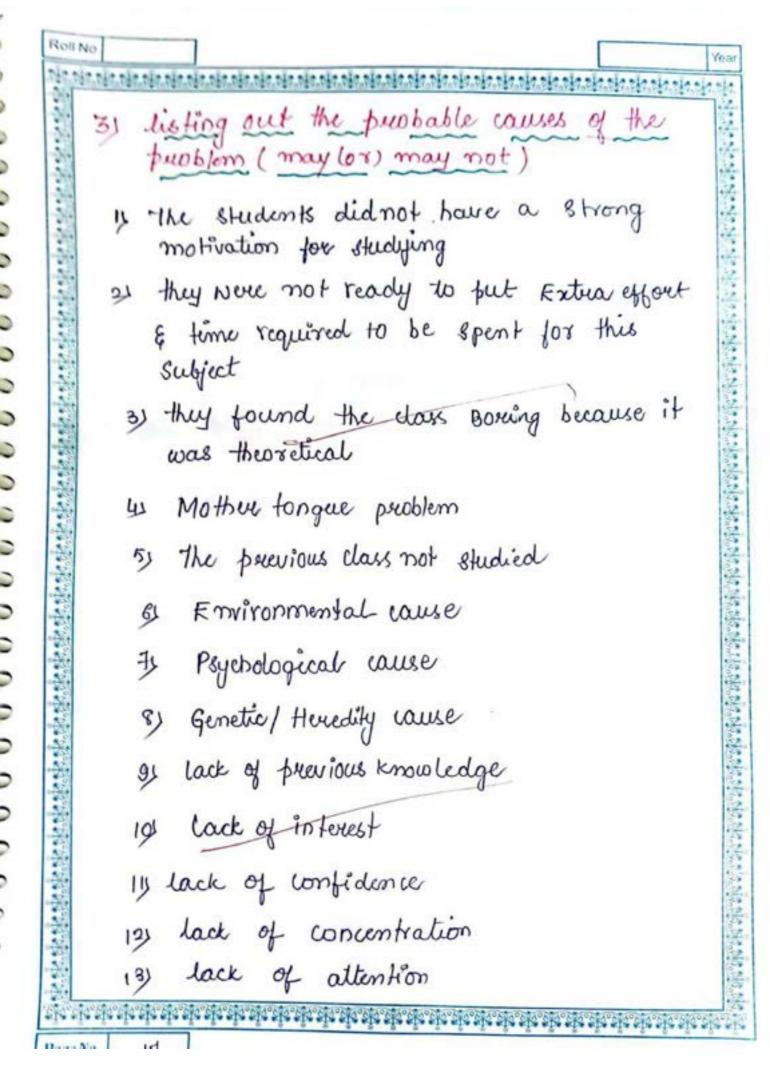
- is identification of the problem.
- as Analysis I defining of the problem
- 2 listing out the probable cause of the problem
- 4) constructing the theoretical Background
  - 5) problem analysis in terms of causes
- 6) formulation of Action based Hypothesis
- to constructing the action plan
- Implementing the action plan [conducting the pre-test)
- gs conducting post test [Evaluation]
- 10) Paking self decisions
- 11) Result (T-Test)
- 121 condusion
- 13) References.

I I developed for of the perblem.

the Basic concept of solar Again Such as differed - my.

= Analysis of the publishing

facing a publish on understanding a sonopt of solar system due to lack of altertion this publish occur may also be due to lack of concentration when the teacher was teaching, they didn't understand the concentration while the teacher was teaching solar system this might include diffuoutlies in grasping for understanding the difference blue planets, moon & the other celestial bodies



4) Constructing the the	un desirable.
1) the students did not have a strong motivator for studying  e) they were not ready to but Extra efforts  E time required to be spent for this subject  3) they found the class Boring because it was theoretical  4) mother to angue problem  5) the previous dass not studied  GI lack of previous knowledge  FI lack of interest  E) lack of interest  E) lack of confidence  9) lack of concentration  10) lack of attention	p Environmental cause  21 psychological cause  33 Genetic/Heredity cause  44 Day duaming  55 Rye sight problem  6) Lonliness

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pupil are facing the problems to el of other language such as English because (B) (G) to 0 [6'6] pupil mother tongue is not english. they only 0.0 00 00 (A) know their mother tanque language. So 0.0 (a) (a) it is difficult to guasp (or) understand the 0,0 0,0 000 concept whatever teacher will teachers it 0,0 Will take time to unduestand the conception 0,0 0,0

The pupil did not have a strong motivation for studying a specific Subject.

The pupil were not ready put their Extra efforts & time required be spent for the subject never they were lagging to understand

-ing because the solar rchapter is mostly a theoretical part. this may be a reason they found the chapter Boxing.

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The pupil who didnot studied the classes peroperty, so they were larging in unduestanding the concept, lack of previous knowledge is due to their previous classes the student didn't studied the class, the student will lack in perevious about a concept of a particular knowledge subject.

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pupils one not interested & concentr 0,0 0,0 000 ate on the concept because of the way of teaching method of the teacher. not an effective teaching (or) one way of teaching Nithout discussing with students, if Stateacher is not showing proper TIM related to the concept it might be a reason that they were not showing interest, & not be able to concentrate

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# formulation of Action Hipsachers :-

The teacher known the prestures of the presis 80, the teacher will adopted to take the Remedial teaching.

### y Hypothesis 1:

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Keeping students engaged the more you will try to engage the students, they students faced less publism. The teacher Should use colour chalks, charts so that Students take interest.

### 2) Hypotheris:

supervise the class, teacher should be walk on the classroom (or) superior the students so that, teacher can keep on eyes on their activities & students will also be attentive (08) aware

### 3) Hypothesis 3:-

Reinforcement, The should use reinforcement skill to ask them question & to appreciate them.

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PSE SE (10 Mass 4:-Be a projectional leader Tracker should be peoples and I also become like projectional being fluctures friend in 14 T 264 their diving 湖 moking from confertable 74 but donot become Themat personally 24 applied frauly be effective 5 32 34 200 HYDOMAU 5:-method of teaching. 9.0 25 tracker should use sumple to implex 9.0 known to unknows, particular to general. 9.0 9.5 & concrete to abstract maxims of teaching 9.5 order to action the aims & objectives of 9.5 9.5 the tracting of a particular subject. 15 10 10.53 10/13 2010 9 15 10 0 9.5 010 10,50 Win. 9.9 10,19 080 0.5 10,10 till 10,10 min. 10,60 win. 10,10 Dill 79,10 1110 10.10

7	constructing	the act	ion play	ni-	
No		Teacher Adivity	pupil Activity	Date: +ime	TUM,
	pupik are enable to undustand solar system	Conducting pre-test	writing test	25min 6 10 2 24	-
2.	Introduction of celestral object, astrono -my.	Explaining	Recall	45min	chaets
3.	Explaining phases of moon	Explain Explain (dentity).	Rubognise	45ฑเ๋ก	charts
4.	Defining & Explaining Stars & constill -ation	define	listen	45min	use of Nhite board
5.	Exploits celestial objects sastrono	Explain	dable	45min	charla
6.	After the R. teaching conducted post		writing test	25min 21 2/2024	-

## the action plan:

The pre-ket is taken date 10/2/2024 on the concept of Solar syskm.

00 In the pre-test students are face a problement undurstand the solar system such as 000 0.0 Celestial objects & phases of moon. 0.0 number of students written test are 33.

## 91 Conducting post test:

0,0 0.0 After the remedial classes 000 0.0 std of K-R.C. R. School the post 0.0 0.0 lest conducted on the date 21/2/24 the 000 Students written the test with full confidences 0.0 enjoyed to answer the questions 000 000 on the solar system topic 0.0 0.0 000 the total number of students written test 000 0.0 0.0

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DASAYEMWAR COLLEGE OF EDUCATION DIDAS

#### KITTUR RANI CHENNAMMA RESIDENTIAL SCHOOL BIDAR

(1) 1 (1) (2) (3) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	A) new moon day B) crescent moon Which of the following is A) An asteroid B) A constellation Which of the following is A) Saturn B) Sirius The planet which is farth A) Mars B) Jupitar Stars appears to move for A) South to North B) East to West Fill In the blanks The objects which do not the planet which appears The asteroids are found	C) full moon day D) phases of moon  a not a member of the solar system C) A satellite D) A comet  s not a planet of the sun C) Mercury D) Earth  hest from the sun is C) Stars D) Neptune  from C) West to East D) North to south	(1x5+5)
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4) 5)	A celestial body which r		
5)		revolves around a planet is known as	
		entellis e	•6
3.	MSAT IS an	satenite	
	Answer the following q	question	
1)	What is asteroid?		(1x
	Name any two constell:	ations	,
		y you can find Venus if it is visible as an evening star?	
	What is meteorite?	1 100 can mid vends it it is visible as an evening start.	
	What do you mean by	orbit?	
5)	what do you mean by	Orbiti	

Max Marks: 15

#### BASAVESHWAR COLLEGE OF EDUCATION BIDAR KITTUR RANI CHENNAMMA RESIDENTIAL SCHOOL BIDAR

Post - Test

Mas Marks: 18

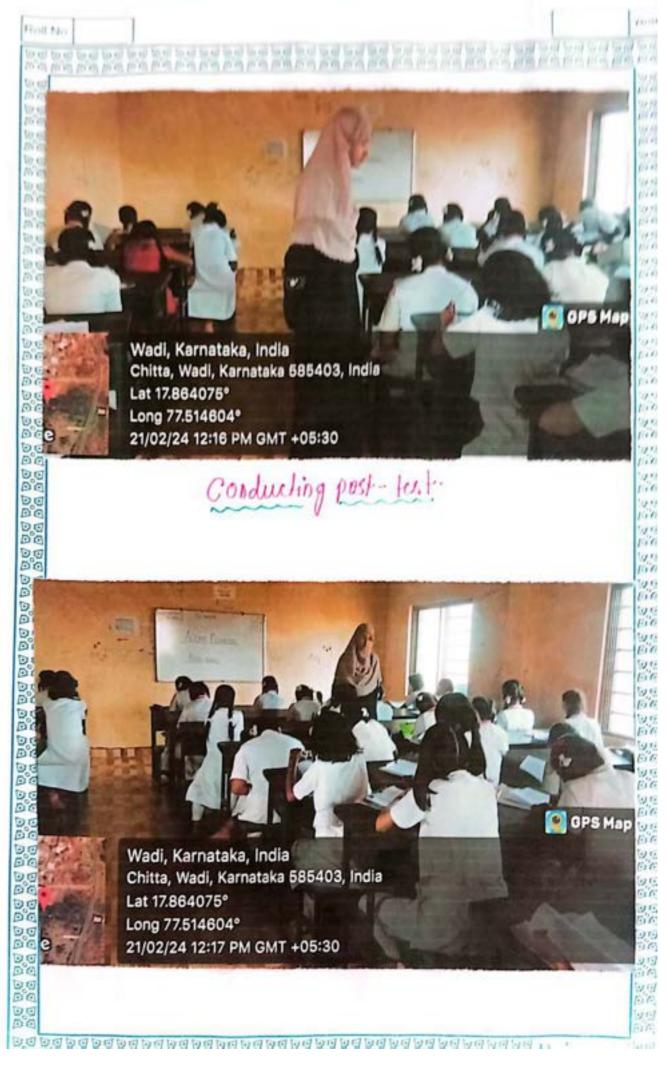
Subject : Physical Science

4) What do you mean by period of revolution?

5) What do you mean by satellite?

Hone: Jihodo Class: 8th STD 1. Multiple choice questions 1) The earth along with moon revolves around the (148-B) A) Sun C) Stars B) Planet 0) Asteroids 2) The Earth rotates from A) East to West C) West to fast B) North to South D) South to North The planet is nearest to the sun A) Venus C) Mars B) Earth D) Mercury 4) Mars has satellites A) 1 C) 2 B) 3 D) 4 5) was the first Indian Satellite A) Kalpana-1 C) INSAT D) EDUSAT B) Aryabhata 2. Fill in the blanks 1) The Stars, the planets, the moon & many other objects in the sky are called (1x5-5) On the 15th day the moon is not visible, this day is known as Planet is of often called a morning or evening star The sun is nearly . KM away from the Earth Orion is also called the 3. Answer the following question 1) What do you mean by astronomy? (1/5-5) 2) What is constellation? 3) Which I the brightest star in the sky?

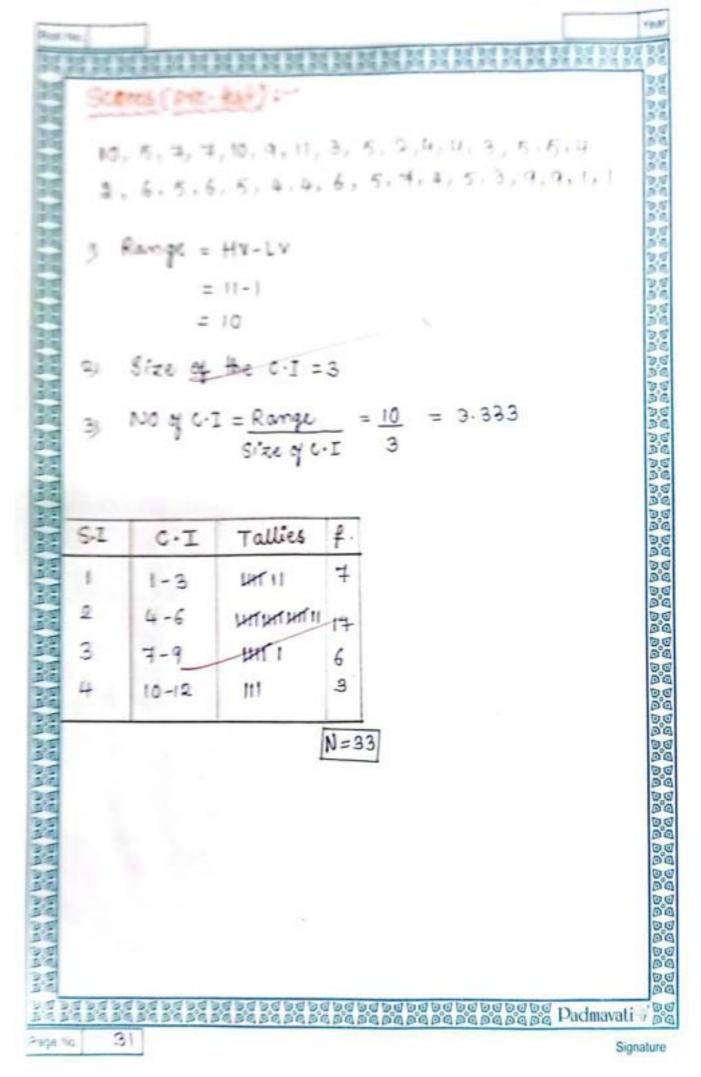




1.10	irks list:-	Total marks	
SL	Name of the students	pre-test	post-test
١.	swati Rajkumar	10	12
2.	Anjali satish	5	13
3	Nandini	7	12
4)	nikita	4	u
5)	Akshata	10	12
6,1	Ankita nagappa	-9	14
71	Nandini jaganath	tt	14
3)	Triveni	3	10
9)	Ashwini	5	10
9	laxmi	,a	7
11	Shweta	4	10
2)	an kita	4	5
31	shivani pandappa	3	10
41	Ranjeeta	5	11
27	Ranjeeta Akshata	5	10
61	Bhauani	4	11
+1	Vijaylaxmi Bhagyashrees	2	8
81	Bhagyashree.s	6	7

**CS** CamScanner

M	larks list	Tota	l marks - 15m
SL.	Name of the student	pre test	post-test.
191	19ivyashrec	5	ti
201	Bhagyashree · V	6	10
211	vaushnavi.s	5	u
221	Sanjana	4	9
23	Aeepika pomdarinath	4	14
24)	Anjana	6	U
25,	Sangeeta	5	8
261	Vaishnavi. R	7	8
27,1	lanni	4	9
281	Shalini	5	U
291	D. Kauy a	3	9
301	Soniya	9	14
311	1404	9	10
321	jyoti Lawanya	1	7
331	Nagamma	t.	9



# Scores[post-test]:-

3) No. of 
$$c \cdot I = \frac{Range}{Size of c \cdot I} = \frac{9}{3}$$

$$= 3$$

S.I	c· I	Tallies	F
IJ	5-7	(11)	4
21	8-10	MMMIN	14
31	11-13	MMI	11
4,	14-16	1111	4

N = 33

Page No. 34

Signature

New Shree

$c \cdot I$	f	X	£x	c.t	d= x-m	d2	fd2
5-7	4	6	24	4	6-10-36=	19.00	76
8-10	14	9	126	18	9-10-36=1.36	1.84	25.76
11-13	11	12	132	29	12-10-36= 1-64	2.68	29.48
14 -16	4	15	60	33	15-10-36=4-64	21.52	86.08
	N=33		Σfα				Σfd2=
	1,4		=342				217.32

## y Mean(M)

Roll No.

$$M = \underbrace{\Sigma f x}_{N}$$
$$= \underbrace{342}_{33}$$

## 2) Median

$$Mdn=L+\left[\frac{N}{2}-CF\right]$$
 xi

$$\frac{N}{2} = \frac{33}{2} \Rightarrow 16.5$$

Roll No. 000 000 a a 0.0 000 000 0.0 000 0.0 = 7.5+ ( 12.5) x3 0.0 00 a a 0.0 0.0 =7.5 + 0.89 x3 0.0 0.0 90 00 7.5 + 2.67 0.0 0,0 (B) (B) 10.17 0.0 0.0 Man= 0 0 0 0 0,0 9.0 000 Mode = 3 moder-2 mean 0,0 000 = 3 x 10.17 - 2 x 10.36 0,0 0.0 0 0 0 -30.51 - 20.72 0.0 0.0 0,0 000 9.79 Mode = 0,0 000 0,0 0.0 Interpretation = H.V-L.V 0,0 0,0 മുമ 00 0,0 10.36-9.79 0.0 0,0 000 0,0 000 Here, npe follows the given data 00 0.0 000 00 0,0 0,0 0,0 Standard Deviation: ĎΦ 000 0.0 0,0 0,0 DO 0.0 0.0 0.0 0,0 0.0 0.0 0.0 00 000 0.0 0.0 000 000 000 000 2.56 18.D= 0.0 0,0 D G 0,0 0.0 DO 0,0

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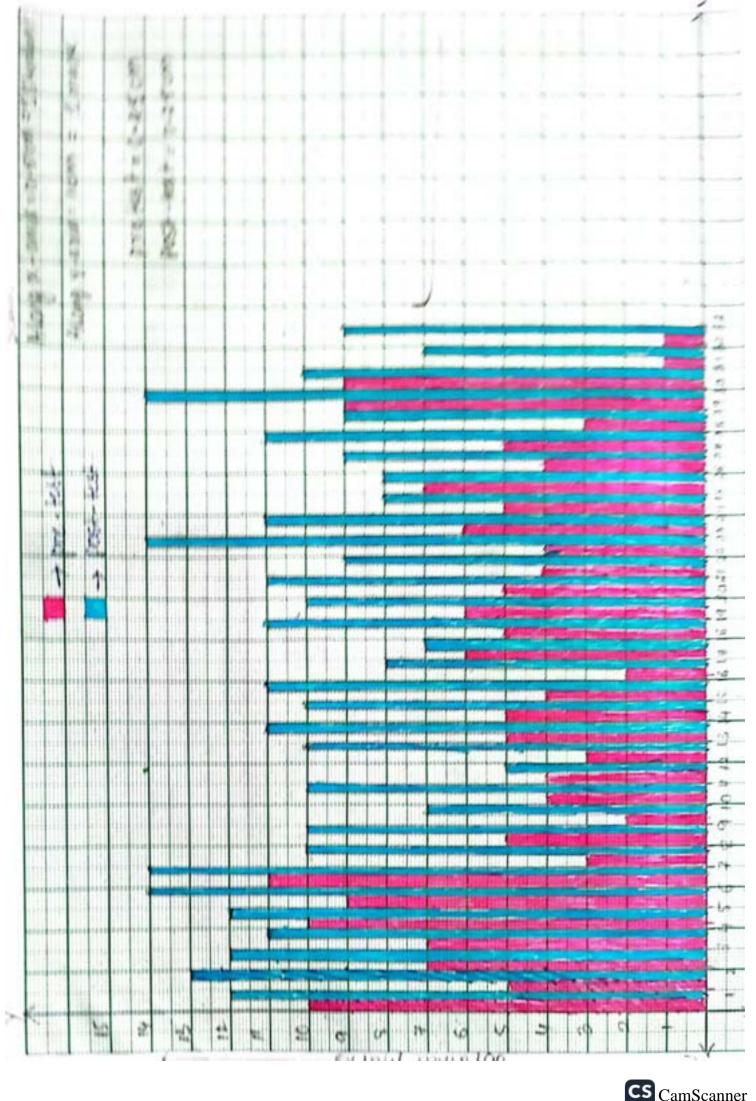
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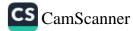
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5

Test	No of Scores	Mean (M)	Standard deviation (S.D)	t
pre-test	33	5.45	2.57	-4.49
Post-test	33	10.36	2.56_	
=	$\sqrt{\frac{(2.57)^2}{33}}$ +	6		
	$ \sqrt{\frac{(s_1)^2}{N} + \frac{(s_2)^2}{N}} + \frac{(s_2)^2}{N} $ $ 5.45 - 10.3 $ $ \sqrt{\frac{(2.57)^2}{33}} + \frac{(2.57)^2}{33} + \frac{(2.49)^2}{33} + \frac{(3.49)^2}{33} + (3.49)^$	6.553 33		





Name : Diveni S Name · Crampati Roll No : doss 8m To Multiple -- choice guestions ... SAME SO OF ALLERY SUPPLES OF CHILD COURSE I The day on which the whole disc of the moon is visible is called ! book ! Not New moon day c) Sull moon day. (b) coescent moon d) Phoses us moon 2) which of the Bollowing is not a member of thesolor system a) An Asteroid ( ) A Satellite A come + / b) constellation 3) which of the following is not a planet of the c) Sigius / b) Mexcusy (contract d) Ewith (c) Satur 4) A planet which is foothest from the sun is ca) mansy and yet sal costons? wine of it > b) jurpitor onen neptmer 5) Stons appears to move from Lekhak (1246)

**CS** CamScanner

Nami- Ashuniah. blite : Hab Sub: 8 Science Test Rallas: 08. muttiple rehouse Austion. Ansy New moon day X Ans) A constellation surus -App of BHOOKS mencury X. Dans = east to well Fill in the blanky 1) desy moon X why mary \* mary ond Indited X Johnso Maturalled satellite. X 1) Answer the Following auestians.

1) Ansy the Asteriod the Some of the lique of the gasteriod asteriod.

a Steeriod the which Mand is called Asterior. 21 Ares Hat

1 lome Rangelda D 12 ROIL NO: - 30 15 Subject :- Science multiple-choice Duestions the whole of the moon The day owhich is visible this cound 13 by coescent of full moon do n/ew moon day dy phoss of men cocscent modes Car which of the following is not a number of the - P JUSTEM. 40 An A3762009 C/ A. 804011:40 5 onet Constellation which of the tollowing & note planet of 4. 8 un 8180 2 Satura d) Easth more cos 4 A placets which is foothest from the Su 3 mass C1 St008 opito0 dy Neptune Stores appears to move tropo Sounth to worth last to wat by west to East of north to South

saath Name . Bhagyshoer S 12011 No :- 12 o multiple - Thore Questions The day on with the whole discoy new moon day trill moon day of Crescent anoon! 2) which of the tollowing is not a member the Solar System 0) An Asteroid of A satellite b) Constellation 3) which of the lottowing is not a planet of eniriz a) satura of Earth sice of Mexcay A planet which is forthest from the a 28222 Maze rotiqui & Weltune SOOTHS attracons Horth work Juston ? North 25 East 10 a) south 9 NOV 400 CB Forb 1 west.

Date: New moon day wist to east II 1) Nanet 1 Satellite and Tupitar These The gap accupied by the D) millersa mojar, arion northan Sky/ Stars that reader the earthe before Completely The suadus abject is is a definite Aubit if more as Constluction of a weater et It is Seven ar Eight bright

	Date: / /
	Nome: Nandiv  Nome: Nandiv  Closs: 8th  Rall no: 27
	Sub :- Moths
T	—?
14	New moon day X
36	An asteroid Constellation
36	Sirius
	Store X
14	east to west
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r.F	Babit moon X
26	More
46	twickle and X
41	Astoriods ×
JF.	Natural Natural X
Ш	——?
14	A astorides are found between the . Sun
4}	A celestial body which revolves around a planet
	es called astorids
	TATIO OJIVIOT.
96	An as Hunter & Ursa major
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34	
46	
45	
5	The path of the planet in which revolves so the sun
94	around continued is colled proof

## POST-TEST



	DATE
	Name: Nandini . J 14
	Roll no in 26
	clau:- 8th
	Subject :- deiene
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	a) dun to
2)	a) bour ito west to east
3)	d) Murawy.
-4)	c).2
(2	b) dryabhata
TI	
7	· Celestial objects
2)	New moon day
3	Venus
3	(3000 X
3	hunter
<del>-3)</del>	Turker
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1)	0
Jus:	The study of celestial body and other associated phenomena is called asturnomy
	associated phenomina is called astronomy
	Les State (0246)
1e	satellite is the light of known is always
Shin	ang the stages and the moon in the sky

	Warne !- Yullali
	Father name: Tukaram (12)
	Class = 8th
	Roll no · 43
٠٠ عا	Kultiple choice - Question
U	The earth along with moon, ravolus
	around = glun.
: 07:	glun b) planets
	glun s) planets ofters of Ailwoods
	quecus .
	The earth rotates from west to earl
- 157	The earth rotates from west to east
0.000	Moreure:
CF M	o glun
	2) west to east
- 1	2) Murcurity
	w 2 miles
` :	
_	s) Aryabhata
m II	I is globar Dystem celestial body
	2) mon day
	3) unus
	4) 180000. X
*	S) Hunter
	S) Thursday
-111	In man or women
	TT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1)	The study of celestrat body is a
	The estudy of celestical body is a

Idam - Dudalyges FI C- ON 1109 ( o closs -> 8th U'. T. - 9. O · Sun 15 0 West to East 1 3 Mercury ... U **@** 0 Aryabhata 3 U TE -9.11 0 ) Collestial body 0 New Moon day (1) Venus (5) 1, 36000 × 0 Hz hunter L (3) CU - 21 5 0 other solar system. Astronomy Planet is called Astrono Cost x3 5. Yeag rieable group of Stars forming acquiang (2) The called Constellation shape is > of known the stages and the moon in is always the stay

Name : Thagyastroee "E . 1 22012 1 Roll No : 11 . ible [ + Multiple - choice questions along with moon revolves ravourd Sur be planets: · de asteroids rolotes 0 8 east 10 west south land 10 cost Metarry planet sport nearest to the Sun earth OF Neurs CY MOSS Mors the first indian salellit On Ste Asyabhatoic

0	Science leut
0	Date
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0	Name: Nikila
0	class : - 8th
5	Roslevo :- 29
6	Subject :- Science
	~?
OD	Sun
S 2	east to aust west to last
<b>ン</b> 却	Mercury
\$ 5)	kali 1 ~
2	kalpana - 1 X
S 51	-9
2	constillation cellestial object
5 0	- New moon day
3	venus
) 4)	1,16000
5	Hurten
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JII	- 9
20	The study of moon and stars and
2	planets is known as Astromony
2	agracup .
20	The Stary make a recongnisible shapes
>	salled constallation
2	
23	pole Stars is the Brightest stars in a
2	Sky X
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2 4)	the time takes by sun and moon
2	It wound secublishing another is called per
	lekted a