



NAVY CHILDREN SCHOOL

SCIENCE SYLLABUS MONTH WISE SPLIT UP (2024- 25)

CLASS –VIII

MONTH	CHAPTER NO.	CHAPTER NAME	SUGGESTED ACTIVITIES
TERM I			
APRIL - JUNE	1	CROP PRODUCTION AND MANAGEMENT	<ul style="list-style-type: none"> • Prepare a planting and harvesting calendar for a specific crop • Roleplay on Pest management • Soil testing: Perform simple soil tests to analyze factors like pH, moisture content and texture. • Stick the pictures of traditional and modern methods of irrigation in the science diary.
	2	MICROORGANISMS- FRIEND AND FOE	<ul style="list-style-type: none"> • Conduct Yogurt making experiment and discuss the role of bacteria in the fermentation process and its benefits. • Microorganism Pictionary – Students draw and guess different microorganisms in a Pictionary-style game. • Microbe Bingo: Create bingo cards with different types of microorganisms. Teacher describes the characteristics about each microbe. Students mark the corresponding square on their cards and shouts Microbe Bingo for the first who gets a line.
	3	COAL AND PETROLEUM	<ul style="list-style-type: none"> • Energy source debate • Carbon Footprint calculation – Students calculate their carbon footprint and discuss how their energy usage contributes to the consumption of fossil fuels. • List the various products produced from crude oil and their uses.

JULY	REVISION 04 JUL 24 - 12 JUL 24 PT- I		
	4	COMBUSTION AND FLAME	<ul style="list-style-type: none"> • Candle Observation Experiment • Fire triangle game • Fire safety workshop or Fire extinguishing methods-ICT.
	5	CONSERVATION OF PLANTS AND ANIMALS	<ul style="list-style-type: none"> • Locate the biosphere reserve, wild life sanctuaries and bird sanctuaries on Indian map. • Nature Journaling: Prepare a nature journal to record observations about local flora and fauna. • Prepare a list of endangered plant and animal species in your science diary.

AUGUST	6	REPRODUCTION IN ANIMALS	<ul style="list-style-type: none"> • Observe permanent slides of hydra. Observe them using a hand lens or a microscope. Look out for any bulges from the parent body. Count the number of bulges that you see in different slides. • Collect a Bryophyllum leaf and observe the mode of reproduction. • Prepare a list of viviparous and oviparous animals.
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SEPTEMBER	REVISION FOR HALF YEARLY		
	06 SEP 2024 - 22 SEP 2024 HALF YEARLY EXAMINATION		
SEP/OCTOBER	7	ADOLESCENCE	<ul style="list-style-type: none"> • Tabulate the various changes separately for boys and girls which take place during Adolescence. • Invite professionals such as psychologists, counselors, or social workers to speak to the class about topics like mental health, stress management, or healthy relationships during adolescence.

	8	FORCE AND PRESSURE	<ul style="list-style-type: none"> • Calculate average rate of growth of height of boys and girls with age. • Force and Pressure Bingo • Ballon rocket experiment https://youtu.be/NXrLPlxhYBY?si=_8upVq3MhYoCCz46 • Experiment showing pressure exerted by water at the bottom of a container and walls of the container (using a plastic bottle or glass tube.)
NOVEMBER	9	FRICTION	<ul style="list-style-type: none"> • List of some situations that may occur when friction is suddenly vanished. • Friction and Ramp experiment • Friction and Lubricants: Introduce different lubricants such as oil, soap, or wax. Apply a small amount of each lubricant to the surface of a wooden block or a toy car. Compare how the presence of lubricants reduces friction and allows objects to slide more easily across surfaces.
	10	SOUND	<ul style="list-style-type: none"> • Resonance with Glasses of Water: Jal Tarang • Experiment using Rubber Bands: Stretch different rubber bands between two fingers and pluck them. Observe and listen to the sound produced by each rubber band. Note the differences in pitch and volume based on the size and thickness of the rubber bands.
	11	CHEMICAL EFFECTS OF ELECTRIC CURRENT	<ul style="list-style-type: none"> • Prepare a list of good and poor conducting liquids of electricity. • Activity showing conduction of electricity in lemon juice or vinegar. https://youtu.be/k8VBvibujlM?si=8OVhB2wo4JeE9AsQ

			<ul style="list-style-type: none"> • Prepare a list of electroplated items in our surroundings.
DECEMBER		CHEMICAL EFFECTS OF ELECTRIC CURRENT (Continued)	<ul style="list-style-type: none"> • Create comic strips illustrating the chemical effects of electric current in a humorous and creative way.
	REVISION		
11 DEC 2024 TO 20 DEC 2024 PT II			

DECEMBER/ JANUARY	12	SOME NATURAL PHENOMENA	<ul style="list-style-type: none"> • Activity with two charged balloon to show like charges repel each other • Construction of a simple electroscope. • Prepare a list of safety measures of lightning and earthquake
	13	LIGHT	<ul style="list-style-type: none"> • To study the image formation by multiple reflection of light by using two mirror strips, protractor to measure angle, adhesive tape • Making of a simple kaleidoscope. • Activity showing reflection of light to study regular and diffused reflection by using regular and irregular surfaces
FEBRUARY		REVISION	
27 FEB 2025 TO 13 MARCH 2025 ANNUAL EXAMINATION			

NAVY EDUCATION SOCIETY
COMMON FINAL EXAMINATION AY 2023-24
CLASS VIII
SCIENCE
BLUE PRINT

Time: 3 hours

Max.Marks:80

SL.NO	TERM	NAME OF THE CHAPTER	1 MARK OTQ	2 MARKS VSA	3 MARKS SA	5 MARKS LA	4 MARKS CASE STUDY	TOTAL Q(M)
1	TERM-1	Microorganisms- Friend and Foe	1(1)	----	1(3)	----	1(4)	3(8)
2		Combustion and Flame	3(1)	1(2)	1(3)	----	----	5(8)
3		Reproduction in Animals	1(1)	1(2)	----	1(5)	----	3(8)
4	TERM-2	Reaching the age of Adolescence	2(1)	----	----	1(5)	----	3(7)
5		Force and Pressure	1(1) 1(1)A/R	----	1(3)	----	1(4)	4(9)
6		Friction	2(1) 1(1)A/R	1(2)	----	----	----	4(5)
7		Sound	2(1)	2(2)	1(3)	----	----	5(9)
8		Chemical effects of Electric Current	1(1)	----	1(3)	1(5)	----	3(9)
9		Some Natural Phenomena	2(1) 1(1)A/R	1(2)	1(3)	----	----	5(8)
10		Light	2(1)	----	1(3)	----	1(4)	4(9)
TOTAL			20(1)	6(2)	7(3)	3(5)	3(4)	39(80)

Note: Number of questions written outside the bracket and marks written inside the bracket.

A/R- Assertion and Reason questions