

Late Shri Govindrao Wanjari College of Education

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Ref: NAAC 2023/MLD/Cr-2.3.3 Date-10/07/2023

Criteria: 2.3.3	Students are encouraged to use ICT support (mobile-based learning, online material, podcast, virtual laboratories, learning apps etc.) for their learning including on field practice			
	2.3.3.1. Number of students using ICT support (mobile-based learning, online material, podcast, virtual laboratories, learning apps etc.) for their learning, for the last completed academic year			
Findings of DVV	HEI needs to provide the programmed wise list of students using ICT support, documentary evidence in support of the claim Landing page of the Gateway to the LMS used			
Response/ Clarification	Detailed report of students using ICT support facilities like online material, podcast, virtual labs, learning labs etc. is attached (Appendix I)			

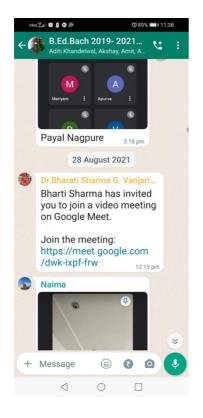


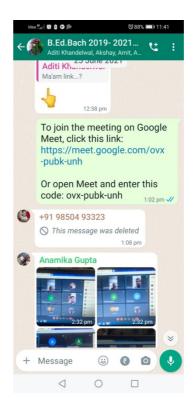
Principal

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Appendix I

Teacher used Google Meet/Zoom for online teaching.

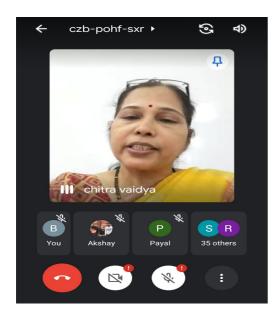


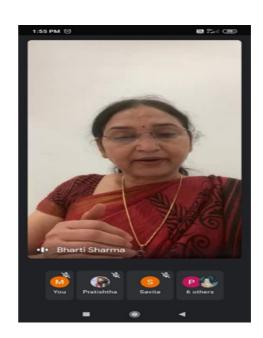






Online Classes conducted through Zoom App/Google meet By Faculty members





Student using ICT support





Online teaching by student teacher Online Activity by Student Teacher



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नाव :

विषय :

दिनांक :

Name: Pranjul Awadhiya

Subject: Biology

Date:

शाळा :

विषयांश :

वर्गः

School: _Rajiv Gandhi Primary School

Topic: Useful & Harmful Microbes

Class: IX

पाठसाहित्य :

पूर्वज्ञान :

Material Aids: Colorful Chalks, Charts

Previous Knowledge: Student know that germs, Cell, Disease etc.

तासिकाअवधी :

Length of Period :30 Min.

अध्यायनानुभव Learning Experience

पाठाच्यापायऱ्या	अध्यापनमुद्दे	उद्दिष्टे व विशिष्टके	अध्यापक कृती	छात्र कृती
Steps of Lesson	Teaching Points	Sub Skill	Teacher's Activities	Student's Activities
A.		To Check Previous Knowledge	Q. During this pandemic everyone know about germs What do we called germs Dietetically?	Ans: Micro Organisms are called as germs.
INTRODUCAITON		To check their Attention	Q. How do you define Micro Organisms?	Ans: Micro Organisms are very very small living organisms made up of either single cell or by multi cells and they can't be seen by our
	o Wanja	Wincipal Control of the Control of t		naked eyes.

: Shrı Govindrao Wanjarı Colleye of Educatı Borkhedi (Gate) Butibori, Nagpur

पाठाच्यापायऱ्या	अध्य	गपनमुद्दे	उद्दिष्टे व विशिष्टके	अध्यापक कृती	छात्र कृती
Steps of Lesson		ng Points	Sub Skill	Teacher's Activities	Student's Activities
			Effectiveness	Q. Why do we called them Micro Organisms?	Ans: Because they have very tiny size of cells by which they called as Micro Organisms.
INTRODUCTION			Arising Curiosity	Q. By which thing we can see them?	Ans: We can see them only by Microscope.
				Q. What is Microscope?	Ans: An Instrument which enlarge the size of the cell enough to see them properly.
				Q. In what way Micro Organism play important role in our daily life?	Ans: Problematic Question.
B. ANNOUNCEMEN	B. ANNOUNCEMENT OF AIM		Today we will learn about "Useful and Harmful Micro Organisms.		
C PRESENTATION	Microo Micro	rganisms Organisms	Knowledge : Student recalls the definition of Micro Organism	Teacher explains he content and asks Questions during Explanation	Student understands the lesson and note down the content and tries to give rely of the questions.
TALSENTATION	(Very Very Small) Habitat of Mic	Living beings	Comprehensing: Student explains the habitat of Microorganisms. Skill: Student draw the diagram	Q. How many types of Microorganisms found in nature	Ans: There are 5 classes of Microorganisms are found which are Bacteria, Virus, Fungi, Algae, Protozoa.



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Steps of Lesson	Teaching Points	Sub Skill	Teacher's Activities	Student's Activities
PRESENTATION	Classes of Microorganisms - Bacteria - Fungai - Aleae - Protozoa - Virus	Knowledge: Student defines the classes of Microbes. Comprehensing: Student explains the types of Microbes and their	Teacher shows charts and draw the picture about Microorganisms Habitat and explains the Habitat of Microorganisms.	Students listen carefully and understands.
	Role of Microorganisms: According to role Microorganisms are two types 1) useful Microorganisms 2) Harmful Microorganisms	features. <u>Skill</u> : Student draws he diagram of Microbes.	Q. Where does Microorganisms are found in nature?	Ans: M.O. are found in ranging from ice cold to hot climate in soil, air, water, animal, plants etc.
	Useful Microorganisms are called Friends. Harmful Microorganisms are called Foe.	Knowledge: Student tells the useful and Harmful Microorganism names and their respective roles.	Teacher explains the types of M.O. Based on their role with the charts.	Student draws chart and understands the M.O. species which have different role.
		Comprehensing: Student describes the role of Microbes and their side effects as well.	Q. What do we called the useful Microorganism?	Ans: Useful M. O. are called as beneficial M. O. which are used in various ways in our daily life.
	Wani	Bho	Q. Which bacteria is called N ₂ fixing Bacteria? Why?	Ans: Rhizobium Bacteria is called N ₂ fixing Bacteria because it fixed atmospheric N ₂ .

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Steps of Lesson	Teaching Points	Sub Skill	Teacher's Activities	Student's Activities
			Q. A Fungi is used for Medicinal purpose which is it?	Ans: Penicillium fungi is used in production of Antibiotics called penicillin.
			Teacher further explains Harmful Micro organisms by using chart.	Student listen carefully and understands it.
PRESENTATION		Application: Student correlates the concept and applied knowledge to the real world.	Q. What are the harmful effects of harmful Microorganism?	Ans: Harmful Microorganisms causes many harmful effects like causing diseases, spoilage of food, clohes and Leather.
FILISHITATION			Q. Microorganisms which causes disease are called?	Ans: Microorganisms which causes disease are called pathogens.
			Teacher shows char and describes various diseases which are caused by various Microorganisms	Student observes the char and understands the content.
	Wanja	Tingual Control of the Control of th	Q. Name the disease which are caused by Bacteria.	Ans: Cholera, Tuberculosis, Typhoid, Tetanus, Food poisoning.

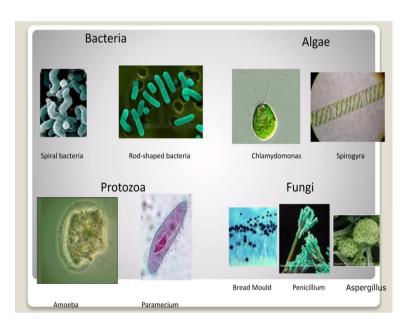
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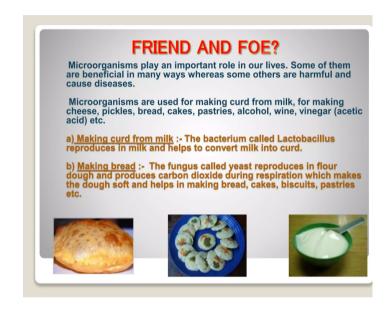
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Steps of Lesson	Teaching Points	Sub Skill	Teacher's Activities	Student's Activities
D		To strengthen the acquired knowledge	After explanation teacher recapitulates the lesson with asking few question.	Student tries to give answer these questions.
RECAPTULATION		To test the taught topic	Q. Which Microbe turns milk into curd?	Ans: Lactobacillus
		To revise the knowledge gained by student	Q. Which Microorganism	Bacteria forms curd from milk.
		To have the feedback	responsible for alcohol production?	Ans: Yeast is responsible for Alcohol production.
			Q. AIDS is an immune disease caused by?	Ans: AIDS is caused by Virus.
			Q. Microbes which are	
			used to increase soil fertility are called as?	Ans: Microbes are used to increase soil fertility are called as biofertilizers
E HOME WORK		To develop the self study habit	Teacher writes the Home Work on black board.	Student note down the home work from black board.
		To enhance the learning, reading skill	Q. Match the pair i) Curd formation – Penicillium ii) Antibiotic production – E- coli	board.
			iii) Digestion of food – Yeast iv) Alcohol Production -	
			Lactobasillus	
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Sample Of Student Presentation

Various Types of Microorganisms







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