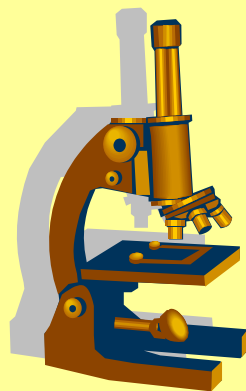




**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE
(GIRLS), KHAMMAM**

ACTIVITIES REPORT DEPARTMENT OF MICROBIOLOGY

AY-2024-25



Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world.

- Louis Pasteur



CANCER AWARENESS PROGRAM ON 09-09-2024

OBJECTIVES:

- To give awareness on Cancer, it's caauses, treatment and preventive measures.
- To provide awareness on early detecting of Cancer
- Primary level examination of breast cancer

ABOUT THE PROGRAM:

The department of Life science conducted the Breast Cancer awareness program to students and faculty on 9th September in the college premises. **You We can** an NGO under the program Swach mahila Swach Bharath took a significant step in the fight against breast cancer was came forward to conduct the Breast Cancer awareness program to students and faculty and also conducted Screening test to all the women faculty.



The program was inaugurated by our beloved principal Dr. P.Srivani garu and adressed the students, gave suggesstions to the students.

As a part of the program Miss. Pavani, Miss Vidya, Miss Satyavathi and Dr. Shanand have adressed the students and faculty. They gave awareness about breast cancer causes, how to detect in early stage, and tips to find out the breast cancer and precautions to take to stop the breast cancer.

After the awareness to the students, the team has examined all the female teaching and non teaching faculty and sent the report to their mobiles.

ICT-PPT CLASS 24-10-2024

ABOUT THE PROGRAM

On January 25, 2023, the Department of Microbiology conducted ICT – PPT class on HIV virus for 2nd year microbiology students. As the HIV subject was more difficult and needed visuals for understanding the topic to enable the students to understand the topic, the PPT class was taken to the students.

OBJECTIVES

- To educate students about the species of Mycobacterium
- To utilize ICT tools to make the learning process more engaging and effective.
- To highlight the staining procedure of tubercle bacilli, the symptoms of the disease, clinical significance, epidemiology, and prevention.

PROGRAM OUTLINE:

- The class prepared by the faculty Mrs.Zeenath of the Department of Microbiology. A detailed PowerPoint presentation was created, incorporating images, charts, and diagrams of the Tubercle bacteria.

The class includes

- Introduction to the Virus
- Classification
- Epidemiology
- Symptoms
- Pathogenesis
- Treatment
- Preventive Measures
- At the end of the class students asked the doubts and were clarified.



by discussing with each other.

TEACHING-LEARNING METHOD INVOLVED:

- **Blended Learning-** By performing the test for number of times students experienced the topic by practicing it and understood very clearly.
- **Collaborative Learning-** As the Students performed the tests in a collective manner they have learned

CROSSWORD COMPETITION ON 14-09-2024 ON THE TOPIC FERMENTATION TYPES

ABOUT THE PROGRAM:

As a part of encouraging the students' involvement in the class room learning, a crossword competition was conducted by the department of Microbiology on the Topic FERMENTATION TYPES which is a part of the Industrial Microbiology for all the 3rd year students

OBJECTIVES:

- To involve the students in the subject.
- To implement collaborative learning.
- To facilitate quick thinking in the students.





PROGRAM OUTLINE:

- Students are divided into three groups.
- A printed Crossword puzzle given to all the three groups, and timer was set.
- The Group 1 was completed first than others.
- Students were enjoyed a lot the session and they answered as many as they can.

TEACHING-LEARNING METHOD INVOLVED:

- **Active Learning-** By discussing among the group members and for answering in short time students are able to recollect the subject.
- **Collaborative Learning-** As the Students performed the tests in a collective manner they have learned by discussing with each other.

STUDENT SEMINAR 29-09-2024 ON THE TOPIC TYPES OF FERMENTATION



ABOUT THE PROGRAM:

As a part of encouraging the students involvement in the class room student seminar was conducted by the department of Microbiology on the Topic TYOES OF FERMENTATION which is a part of the Industrial Microbiology and invited Interested students to participate. The student K.Sai Prasanna from MZC 3rd Year came forward and gave the seminar.

OBJECTIVES:

- To involve the students in the subject.
- To implement experiential learning.
- To encourage the teaching skills in the students.

PROGRAM OUTLINE:

- The student prepared the material for the seminar with the help of the department and also by referring the books.

- On the Day of seminar the student gave the lecture by using black board.

TEACHING-LEARNING METHOD INVOLVED:

- **Experiential Learning-** By performing the test for number of times students experienced the topic by practicing it and understood very clearly.
- **Collaborative Learning-** As the Students performed the tests in a collective manner they have learned by discussing with each other.

Q & A SESSION:

- Students asked their doubts and the speaker cleared doubts and the faculty also helped to clear the student's doubts.

FIELD VISIT TO VIJAYA DIARY INDUSTRY IN KHAMMAM ON 20-09-2024



INTRODUCTION:

As a part of enabling the Experiential learning to the students, the department of Microbiology took the students to field visit to the Vijaya Dairy Industry, Khammam. The purpose of the trip was to provide students with practical insights into the dairy industry, its operations, and its significance in the local economy.

OBJECTIVES:

1. To observe the various processes involved in dairy production, from milking to packaging.
2. To understand the technological advancements and best practices employed in dairy farming and processing.
3. To learn about the economic and social impact of the dairy industry on the region.
4. To interact with industry professionals and gain insights into career opportunities in the dairy sector.

ACTIVITIES:

Upon arrival at the dairy industry, students were greeted by the management team who provided an overview of the facility and its operations. The itinerary included the following activities:

1. FACILITY TOUR: Students were taken on a guided tour of the entire facility, including the milking parlors, processing units, quality control labs, and packaging section. First they observed the various stages involved in dairy production, from raw milk collection to the final product.

2. INTERACTIVE SESSIONS: Industry experts conducted interactive sessions where they explained the technological innovations and best practices adopted in dairy farming and processing. Students had the opportunity to ask questions and engage in discussions on topics such as hygiene standards, and product diversification.



3. QUALITY ASSURANCE DEMONSTRATION:

A demonstration on quality assurance and food safety measures was conducted, highlighting the importance of maintaining high standards throughout the production process. Students learned about quality control tests conducted at different stages to ensure the safety and purity of dairy products.

4. CAREER GUIDANCE: The trip also included a career

guidance session where students learned about the diverse career opportunities available in the dairy industry, including roles in production management, quality control, marketing, and research & development.

CONCLUSION:

The field trip to the Vijaya Dairy industry, Khammam proved to be an enriching and educational experience for the students. It provided them with valuable insights into the dairy production process, technological advancements, and career opportunities in the industry. The trip also underscored the importance of the dairy sector in the local economy and its role in providing livelihoods to rural communities. Overall, it was a memorable learning experience that complemented the theoretical knowledge gained in the classroom.



TEACHING – LEARNING PRACTICES:

1. Experiential Learning: Learning through direct experience and reflection.

Activities: By observing the dairy processes in real-time, engaging in hands-on activities, and participating in quality control tests.

Benefits: Provides a deeper understanding of concepts through practical application, enhances retention, and fosters critical thinking.

2. Observational Learning: Learning by watching others and noting behaviours,

Processes and outcomes.

Activities: Watching employees operate machinery, observing the milk processing stages, and seeing quality control checks in action.

Benefits: Helps students to understand procedures and

protocols, allows them to visualize theoretical concepts, and provides real-world context.

3. Inquiry-Based Learning- Learning driven by questioning, investigation, and problem-solving.

Activities: Asking questions about processes, investigating how different machinery works, and exploring the reasons behind specific quality control measures.

Benefits: Encourages curiosity, develops problem-solving skills, and fosters a deeper understanding of the subject matter.



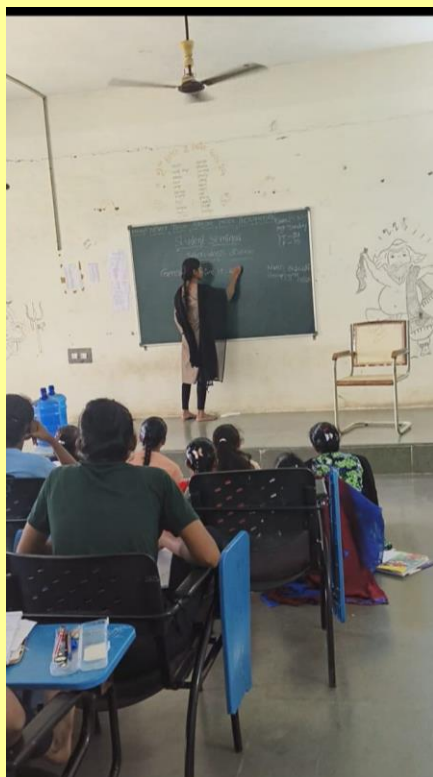
4. **Collaborative Learning**-Learning through interaction and collaboration with Peers and industry professionals.

Activities: Group discussions during and after the visit, collaborative note-taking, and joint presentations.

Benefits: Enhances communication and teamwork skills, allows for diverse perspectives, and improves understanding through peer learning.

Thanks to the Director, Vijaya Dairy Khmmam For giving this Opportunity.
Thanks to the Gurukulam.

STUDENT SEMINAR 29-09-2024 ON THE TOPIC TUBERCULOSIS DISEASE



ABOUT THE PROGRAM:

As a part of encouraging the students involvement in the class room student seminar was conducted by the department of Microbiology on the Topic TUBERCULOSIS DISEASE which is a part of the Industrial Microbiology and invited interested students to participate. The student G.Sruthi from MZC 2nd Year came forward and gave the seminar.

OBJECTIVES:

- To involve the students in the subject.
- To implement experiential learning.
- To encourage the teaching skills in the students.

PROGRAM OUTLINE:

- The student prepared the material for the seminar with the help of the department and also by referring the books.
- On the Day of seminar the student gave the lecture by using black board.

TEACHING-LEARNING METHOD INVOLVED:

- **Experiential Learning-** By performing the test for number of times students experienced the topic by practicing it and understood very clearly.
- **Collaborative Learning-** As the Students performed the tests in a collective manner they have learned by discussing with each other.

Q & A SESSION:

- Students asked their doubts and the speaker cleared doubts and the faculty also helped to clear the student's doubts.

STUDENT SEMINAR 29-09-2024 ON THE TOPIC STRUCTURE OF BACTERIAL CELL



ABOUT THE PROGRAM:

As a part of encouraging the students' involvement in the class room student seminar was conducted by the department of Microbiology on the Topic STRUCTURE OF BACTERIAL CELL which is a part of the General Microbiology and invited interested students to participate. The student P.Samudri from MZC 1st Year came forward and gave the seminar.

OBJECTIVES:

- To involve the students in the subject.
- To implement experiential learning.
- To encourage the teaching skills in the students.

PROGRAM OUTLINE:

- The student prepared the material for the seminar with the help of the department and also by referring the books.
- On the Day of seminar the student gave the lecture by using black board.

TEACHING-LEARNING METHOD INVOLVED:

- **Experiential Learning-** By performing the test for number of times students experienced the topic by practicing it and understood very clearly.
- **Collaborative Learning-** As the Students performed the tests in a collective manner they have learned by discussing with each other.

WORLD CANCER DAY ON 07-11-2024

ABOUT THE PROGRAM:

The department of Microbiology conducted the awareness program on the occasion of World cancer day on 7th November in the college premises. In this program the students gave poster presentation and faculty has given valuable information about the Cancer, causes, Treatment and preventive measures.

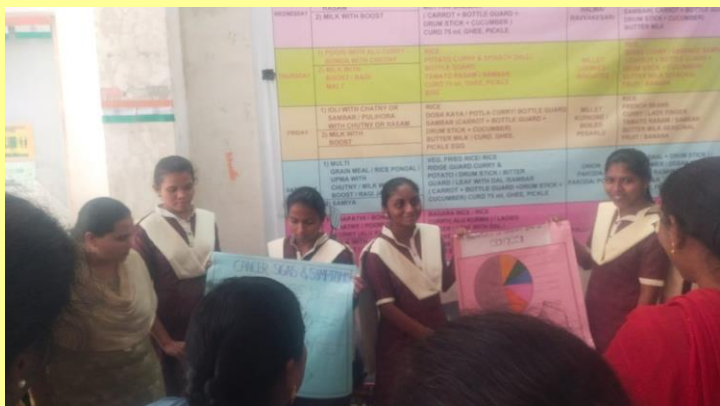


OBJECTIVES:

- To give awareness on Cancer, its causes, treatment and preventive measures.
- To provide awareness on early detecting of Cancer.

PROGRAM OUTLINE:

As a part of this program all three years students gave poster presentations showing the details of Cancer related information and explained and also shown the statistics of the Cancer.





3D MODEL MAKING PROJECT

ABOUT THE PROJECT:

Model making is an innovative approach in teaching, where students have to play active role and they are the responsible for their knowledge application.

It also enables the students to use their observation skills, imitating as well as using their own creativity.



The department of Microbiology always tries to enable an innovative learning environment within the classroom, as a part of that a 3D model making program was conducted to the all 3years students of Microbiology.



vivo V29 Pro
Thanikella Telangana 09-Sept-2024, 11:42



vivo V29 Pro
Khammam Telangana 09-Sept-2024, 11:44



vivo V29 Pro
Thanikella Telangana 09-Sept-2024, 11:47



vivo V29 Pro
Thanikella Telangana 18-Sept-2024, 10:17

Primarily students are grouped in to three groups and explained about the work they have to do to make the model.

Students made the model and also explained about it. And they also exhibited to the Regional Coordinator Sri Nagarjuna Rao garu and received appreciations.

TEACHING LEARNING PRACTICE:

By making the models students got hands-on experience as well as they understood the topic very familiarly.

WORLD PNEUMONIA DAY PROGRAM ON 12-11-2024

ABOUT THE PROGRAM:

The department of Microbiology conducted an awareness program on the occasion of World Pneumonia day on 12 th November in the college premises. In this program the students performed a skit and faculty has given valuable information about the Pneumonia , causes, Treatment and preventive measures.

OBJECTIVES:

- To create awareness among the students regarding the Pneumonia disease.
- To encourage students to participate in the awareness programs.
- To encourage the participative learning and creative atmosphere.

PROGRAM IN DETAIL:

The faculty of department of Microbiology invited interested students to participate in the Skit program on the occasion of World Pneumonia Day to create Awareness in students and faculty about Pneumonia disease, its symptoms and treatment.

In this scenario MZC 3rd year students came forward and they practiced for the skit program. The required data and suggestions were given by the faculty. On the day all the students, staff, IQAC Coordinator, Vice principal and Principal attended the program.

Students have played the skit in a very well manner the audience were entertained as well as educated with the required information.

At the end of the students gave some stats about pneumonia dn precautions to be taken. The program was summarized by the speech of few HODs, IQAC Coordinator, Vice principal and Principal.

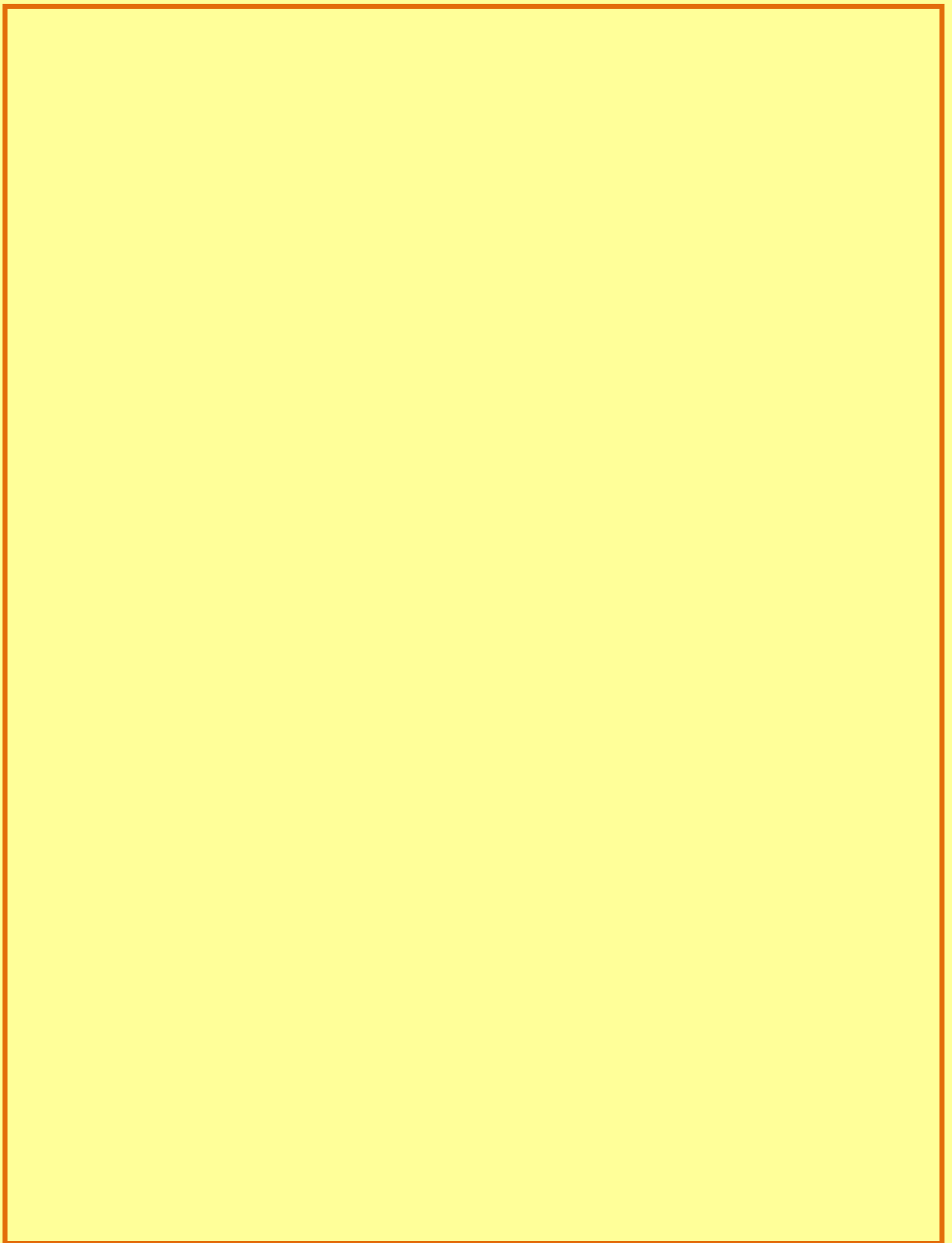
FEEDBACK:

- By performing the skit I learned more about the Pneumonia. – I.Sai Prsanna MZC III Year.
- As I am the part of the skit I was tried to learn more about the Bacterial diseases, I was learned and enjoyed a lot.- Miss. Navya, MZC III Year.

TEACHING LEARNING PRACTICE:

PARTICIPATIVE LEARNING: Students involved in the program and they learned by participating in the program

COLLOBARATIVE LEARNING: Students have worked in collaboration with each other to exhibit the topic.



THANK YOU