

ANDHRAKESARI COLLEGE OF EDUCATION

(Recognized by the GOVT. of A.P. & NCTE Affiliated to Acharya Nagarjuna University)

Cheruvukommupalem Road , Pelluru (Post) , ONGOLE,
Prakasam (District), Andhrapradesh– 523272

SEMESTER – 2



S2P – PEDAGOGY

MICRO TEACHING RECORD BIOLOGICAL SCIENCE

Name of the student Teacher : -----

Roll No : -----Reg.No :-----

ACHARYA NAGARJUNA UNIVERSITY

INDEX

S.NO	TOPIC	PG.NO
(1)	Motivation	
(2)	Explanation	
(3)	Drawing	
(4)	probing questions.	
(5)	objectives & specifications	

Lesson Plan for the skill of Introducing a lesson

Preliminary Information



Name of the skill : Motivation

Name of the student teacher : Jagrati Ravi, M

Subject : Biology

Class : IX

Topic : Cell its structure and function

Sub Topic : Mitochondria

Time : 5-10 minutes



Teachers Activity

Good morning children ?

1 How are you ?

2 What is your name ?

Pupils Activity

Good morning teacher

Fine thank you

Srestha

Black Board work

Teachers Activity	Pupils Activity	Black Board Work
<p>From where you are coming ?</p>		
<p>Do you know any thing about human body</p>	yes	
<p>Tell me some parts of your body ?</p>	legs, hand, stomach	
<p>Every organ of human body is made up of ?</p>	Cells	
<p>Do you know anything about section - cuttings ?</p>	Yes	
<p>What will you observe on the section cutting ?</p>	xylem, Nucleus etc	

Q Name some cell organelles?

Golgi complex
Nucleus, Ribosomes
Cytochrome vacuole
Endoplasmic reticulum
Mitochondria

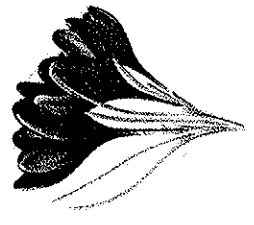
What is "power house"
of the cell?

Announcement of Topic

To day we are going to
learn new topic Mitochondria
from the lesson
"Cell its structure and
function"

Mitochondria

Lesson Plan for the skill of explanation Preliminary information



Name of the skill - explanation

Name of the student Teacher = Janaki Rani

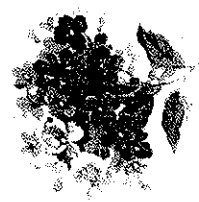
subject = Biology

Class = IX

Topic = cell its structure and functions

Sub Topic = Mitochondria

Time = 5-6 min



Teachers Activity	Pupils Activity	TLMs	Black Board work
<p>Content analysis</p> <p>Mitochondria</p> <p>Mitochondria are small spherical, cylindrical organelle</p> <p>It is 2-8 microns and long 0.5 wide</p> <p>It is about 150 times smaller than the nucleus</p> <p>There are about 100-150 mitochondria in each cell</p>			<p>Spherical</p> <p>Cylindrical</p> <p>2-8 micron</p> <p>100-150</p> <p>oval or cylindrical dots</p>

Teachers Activity

When seen under optical microscope the mitochondria appear as oval or cylindrical dots structure

The mitochondria are made of a double membrane protects it. The inner membrane of the wall protrudes into the interior as folds and form structure called cristae. The ^{space} between the cristae is matrix

Function

Mitochondria are responsible for cellular respiration a process through which the cell derives energy to do work. Mitochondria are known as the power houses of the cell

Black Board
work

Double
Optical
microscope

Double
membrane
Cristae
matrix

Cellular
respiration
Energy
power houses
of the cell

Lesson Plan for the skill of Drawing



Preliminary Information

Name of the Skill - Drawing

Name of the Student Teacher - M. Janaki Rani

Subject - Biology

Class - IX

Topic - Cell its structure and function

Sub Topic - Mitochondria

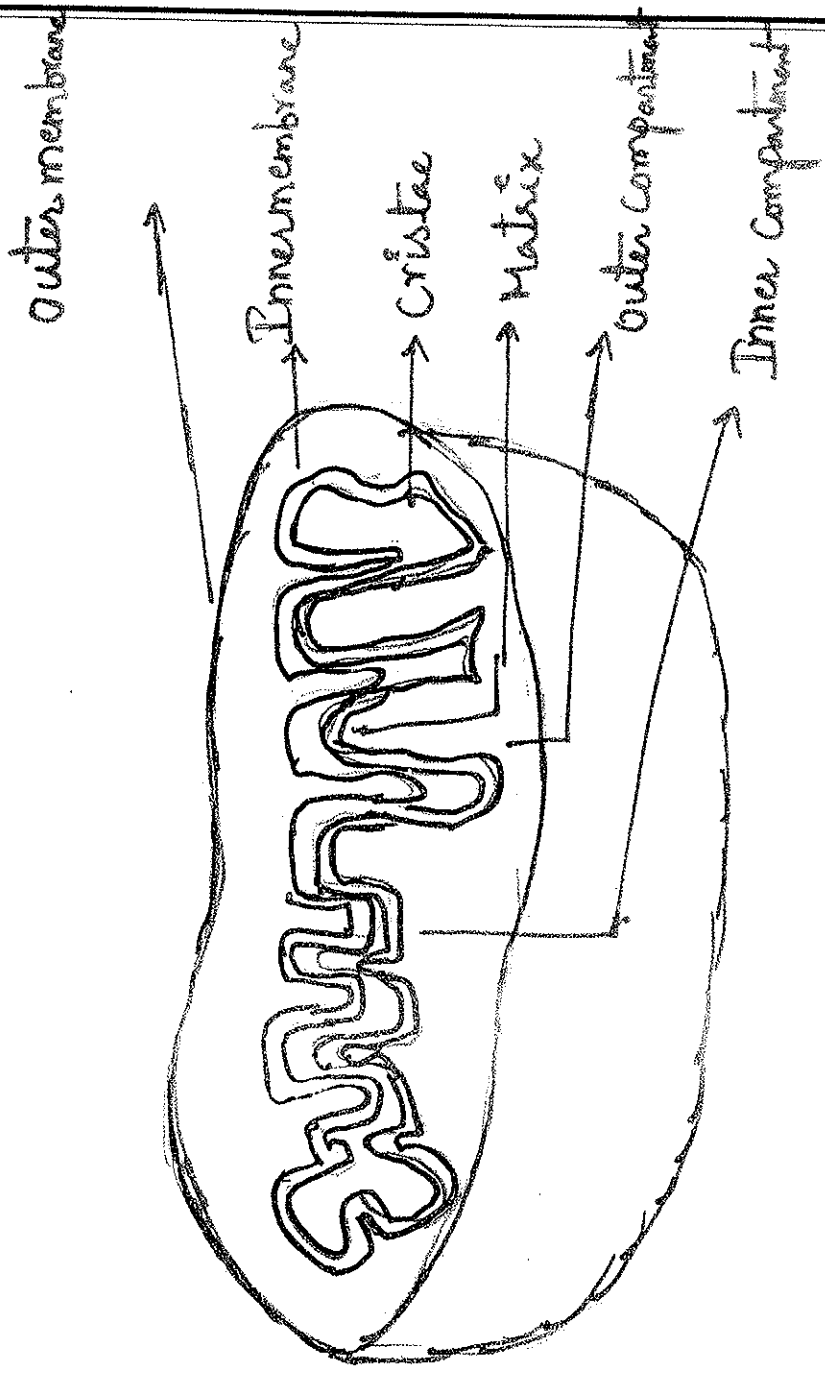
Time - 5-10 min



Teachers
Activity

Black Board work

Mitochondria



Lesson plan for the skill of ~~problem~~ ^{probing} Questions



Preliminary ~~informa~~ ^{probing} questions

Name of the skill - ~~problem~~ ^{probing} questions

Name of the Student Teacher - M. Janaki Rani

Subject - Biology

Class - IX

Topic - cell its structure and function

Sub Topic - Mito chondria

Time - 5-10 minutes



Teachers Activity	Pupils Activity	Black Board work
<p>1 What is the basic structural unit of an organ?</p>	<p>Cell</p>	
<p>2 What are the organelles present in the cell?</p>	<p>mitochondria, Golgi Complex, nucleus, etc</p>	
<p>3 What is the power houses of the cell?</p>	<p>Mitochondria</p>	
<p>4 What is the shape of the mitochondria?</p>	<p>oval and cylindrical</p>	
<p>5 How many membranes are present in the wall of mitochondria?</p>	<p>Two - outer membrane & inner membrane</p>	

Teachers Activity	Pupils Activity	Black Board work
6 What we call the protuberance of inner membrane into the interior ?	Cristae	
7 What we call the space between the Cristae ?	Matrix	
8 What is the main function of mitochondria ?	cellular respiration	
9 What is cellular respiration ?	A process through a cell can derive its energy to do work	
10 Nearly how many mitochondria are present in a cell ?	100-150 mitochondria	

Lesson Plan for the Skill of Objectives & Specifications.

Preliminary information.

Name of the Skill — objectives & specifications.

Name of the Student Teacher — M. Janaki Rani

Subject — Biology

Class — IX

Topic — Cell of Structure and Function

Sub Topic — Mito Chondria

Time — 5-10 min.

- a). Analyses :- Student will analyses and Apply Knowledge.
- b). formulates hypotheses :- Student try to invent new things. He Thinks innovatively.
4. Skill :- Student will develop skills according cell functions and Mitochondria Structure.
- a). Drawing Skill :- Student can draw figure and recognise Parts of Mitochondria.
- b). observation Skill :- Student will observe Parts of Mitochondria and its Size.
5. Interest :- Student will develop Interest about cell functions and Mitochondria Structure.

