

SAINIK SCHOOL AMARAVATHINAGAR

HOLIDAY HOMEWORK 2019-20

CLASS :IX

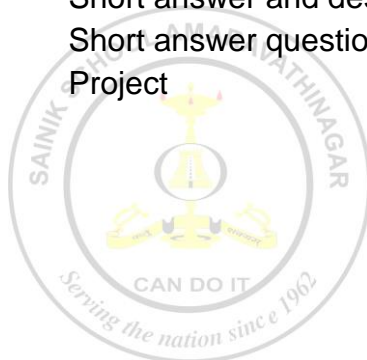
SUBJECT: BIOLOGY

S. NO	TOPIC	ACTIVITY/PROJECT	TIME PERIOD	SKILL ENHANCED/ LEARNING OUTCOMES	ANNEXURE NO
1	Cell	Discoveries on cell	1 Hour	Enrichment of the topic through problem solving.	A
2.	Plasma membrane	HOTS	1 Hour	Conceptual knowledge	B
3.	Cell organelles	Diagram based questions	2 Hours	Kinaesthetic skills & knowledge based	C
4.	Cell ultrastructure	Project- Model Making	3Hours	Learning ultrastructure of the cell	D

Annexure

- | | |
|---------------------|--|
| A. Cell : | Short answer questions |
| B. Plasma membrane: | Short answer and descriptive questions |
| C. Cell organelles: | Short answer questions/Project |
| D. Ultrastructure : | Project |

TEACHERS NAME



RECOMMENDED BY VICE PRINCIPAL

APPROVED BY PRINCIPAL

Signature

Signature

ANNEXURE - A

CELL

1. Give a brief description about various discoveries on cells.
2. Draw the structure of various types of cells and give their functions
3. What is the relationship between cell and size of an organism?

ANNEXURE - B

PLASMA MEMBRANE

1. Why does the skin of your finger shrink when you wash the clothes for a long time?
2. A person takes concentrated salt solution and after sometime he starts vomiting. Give the reason for this.
3. If you are provided with some vegetables to cook you generally add some salt to it and then it starts releasing some water to the surrounding media. What is responsible for this?
4. Why do vegetable vendors generally sprinkle water on their vegetables?

ANNEXURE - C

CELL ORGANELLES

1. Explain the structural organisation of nucleus.
2. Draw the structure of mitochondria and write its functions.
3. Draw the structure of plastids and write its functions.
4. What is cell sap? Write its composition.
5. Differentiate between SER and RER.

ANNEXURE - D

Make a 3-D model of a plant / animal cell and label the parts.