

**SAINIK SCHOOL AMARAVATHINAGAR**

**HOLIDAY HOMEWORK 2019-20**

**CLASS : X**

**SUBJECT: BIOLOGY**

<b>S. NO</b>	<b>TOPIC</b>	<b>ACTIVITY/PROJECT</b>	<b>TIME PERIOD</b>	<b>SKILL ENHANCED/ LEARNING OUTCOMES</b>	<b>ANNEXURE NO</b>
1	Nutrition	Question answers/HOTS	1 Hour	Subject Enrichment.	A
2.	Respiration	Question answers/HOTS	1 Hour	Subject Enrichment.	B
3.	Transportation	Question answers/HOTS	2 Hours	Subject Enrichment.	C
4.	Excretion	Question answers/HOTS	2 Hours	Subject Enrichment.	D
5	Model Making	Project	3 Hours	Learning with 3-D models	E

Annexure

- |                    |                        |
|--------------------|------------------------|
| A. Nutrition :     | Short answer questions |
| B. Respiration:    | Short answer questions |
| C. Transportation: | Short answer questions |
| D. Excretion :     | Short answer questions |
| E. Model Making    | Project                |

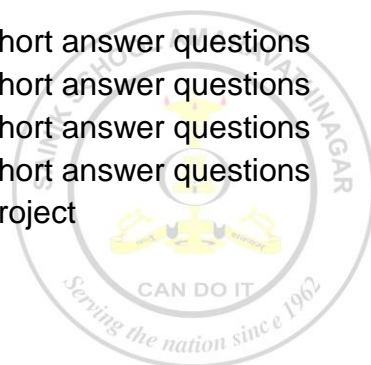
TEACHERS NAME

RECOMMENDED BY VICE PRINCIPAL

Signature

APPROVED BY PRINCIPAL

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### **ANNEXURE A - NUTRITION**

1. Why herbivores have a longer small intestine than carnivores?
2. Give examples for parasitic organism.
3. Differentiate between autotrophs and heterotrophs
4. Explain the process of nutrition in amoeba.
5. Write the balanced equation for the processes of photosynthesis. When do desert plants take up carbon dioxide and do photosynthesis?

### **ANNEXURE B - RESPIRATION**

1. List three characteristics of lungs which make it an efficient respiratory surface.
2. What will be the consequences of deficiencies of haemoglobin in your blood?
3. Why do the walls of trachea do not collapse when there is less air in it?
4. Draw and write an activity to show that plants do the process of respiration.

### **ANNEXURE C - TRANSPORTATION**

1. In Mammals and birds why it is necessary to separate oxygenated and non-oxygenated blood?
2. What is lymph? Give its functions.
3. List three differences between arteries and veins.
4. Explain the transport of water and food in plants.
5. Explain the mechanism of double circulation with diagram.

### **ANNEXURE D - EXCRETION**

1. sketch human excretory system
2. Draw the structure of nephrons and explain the formation of urine.
3. What are the excretory products of plants?

### **ANNEXURE D - EXCRETION**

Model Making-Project - Choose one topic from the following to make a 3D model.

1. Digestive system
2. Respiratory system
3. Heart
4. Double circulation
4. Excretory system