

**Class: VII**

**SUBJECT: Science**

**(A, B, C)**

**Biology:**

1. Make a Model of photosynthesis
2. Note on “hydroponics”.
3. Write a short note on Heterotrophs
4. Unscramble the following to form terms related to mode of nutrition and write a short note on it.
  - A) RASPAEIT
  - B) ROPEHYTSAP
  - C) TOROPHAUT
  - D) SIBIOMSYS
5. Spot as many organisms as possible in the puzzle given by encircling them. Write a names on a sheet of paper and categorize them into autotrophs and heterotrophs. Classify the heterotrophs into herbivores, carnivores omnivores & saprotrophs.

B	R	O	S	E	A	T	C	R	O	W
A	A	G	N	B	H	I	N	D	I	B
N	B	N	G	I	N	G	E	R	C	L
Y	B	A	N	H	B	E	C	O	W	F
A	I	M	U	S	H	R	O	O	M	F
N	T	G	B	E	R	M	W	F	I	O
E	L	E	P	H	A	N	T	S	C	X
T	S	A	E	Y	N	P	H	B	E	E
C	A	R	R	O	T	U	L	S	I	X

**Physics:**

1. Make a model of a clinical thermometer using cardboard and paste it in A4 sheet.
2. State two differences between a laboratory thermometer and a clinical thermometer. Give the reason for each difference.
3. Convert the following temperature to the Fahrenheit scale –
  - (a) 25°
  - (b) 37°
  - (c) 40°
  - (d) 65°
4. Convert the following temperature to the Celsius scale –
  - (a) 212°
  - (b) 86°
  - (c) 34°
  - (d) 180°
5. Can a laboratory thermometer be used to measure body temperature? Why or Why not?
6. How are heat and temperature different?

## **Chemistry:**

1. Write 1 to 30 elements symbols and atomic numbers 3 times.
2. Find out the formula of the following compounds.  
(A) Water (B) Salt (C) Sugar (D) Carbon dioxide (E) Carbon monoxide (F) Vinegar  
(G) Washing soda (H) Baking soda (I) Hydrochloric acid (J) Magnesium chloride
3. Prepare a poster on ways of 'saving water'.
4. Write short note on compounds and mixtures.
5. What is the difference between the symbol and the formula of oxygen?
6. Most elements are found in the Free State in nature. Do you agree? Give reasons.
7. Write the valencies of some common elements and groups  
(i) Hydrogen (ii) Oxygen (iii) Aluminium (iv) Carbon (v) Nitrogen (vi) Sulphur (vii) Iron (viii) Phosphate  
(ix) Chlorine (x) Iodine
8. What is a chemical equation? Why is it necessary to balance an equation?
9. Define the following  
(a).Atomicity (b).Valency (c).Symbol
10. What information does a formula give?