KENDRIYA VIDYALAYA, IIT CAMPUS, CHENNAI – 36

CLASS : XI   SCIENCE

MONTH **: NOVEMBER**

TOPIC   : **DIVERSITY IN LIVING ORGANISMS**

I.   **KEY CONCEPTS**:
- BASIS OF CLASSIFICATION
- CLASSIFICATION AND EVOLUTION
- HIERARCHY OF CLASSIFICATION
- Five kingdom classification – monera, protista, fungi, plantae, animalia
- Classification of plants – thallophyta, bryophyte, pteridophyta, gymnosperms, angiosperms
- Classification of animals – porifera, coelenterate, platyhelminthes, nematode, annelida, arthropoda, mollusca, echinodermata, protochordata,.
- Vertebrata - pisces, amphibian, reptilia, aves, mammalian.
- Read these concepts from the reader and answer the following worksheet (which should be submitted to the respective science teacher on Monday – compulsory)

II.   **WORKSHEET** :
- Draw the following flow charts in the classwork - five kingdom classification (p. no. 85), classification of plants (p.no. 88), classification of animals (p. no. 95)

III.   **JAWAHARLAL NEHRU SCIENCE EXHIBITION - PROJECT**:
- Prepare a project / working model under DISASTER MANAGEMENT - to rescue people from flood in Chennai. (TOPIC – based on your interest)
- This projects is consider as a FA4 activity , so it is compulsory for each student to get that 20 marks.
- Monday (23 / 11 /15) project idea / write up should be handovered to the respective science teachers.
- TOPICS: Health and nutrition, resource management, industry, agriculture and food safety, disaster management, mathematics for quality life.

REVISION FOR FA 3   SUB   PHYSICS   class IX

CHAPTER :   WORK ENERGY AND POWER

 1.Define power. Give its unit.

2.Define energy. Give its unit.

3.Define kinetic energy .Give example.Write the formula for kinetic energy.

4. Define potential energy.Give example. Write the formula for potential energy.

5.Derive the expression for kinetic energy.

6.Derive the expression for potential energy.

7.A body of mass 80 kg is at the height of 10m above the ground.Find the potential energy of the body.

8.A body of potential energy 150Joule is at the height of 20m above the ground.Find the mass of the body.

9.A body of mass 60kg on the top of the wall possesses the potential energy of 600J. Find the height of the wall.

10.A body of mass 30kg is moving with the velocity of 50 m/s.Find the kinetic energy of the body.

11.The kinetic energy of a body is 120J.If the body is moving with the velocity of 12m/s, what is the mass of the body?

12.If a body of kinetic energy 750J is moving with the velocity of 15m/s,find the mass of the body.

13.Find the power of the electrical appliance which consumes the electrical energy of 2kwh for 2hrs.

14.If a bulb of 100w is used for 8hrs,find the electrical energy consumed by the bulb.

15.If the electrical appliances of power 1000w and 60w are used for 8hrs daily. Find the total electrical energy consumed by both the electrical appliances in a month.

Reminder: Students are reminded to complete the physics project work which was already assigned, during the holidays.