

REQUIREMENTS FOR DISTRICT LEVEL SCIENCE CENTRE

BIOLOGY

1. Framed photographs of various scientists related to biology along with their achievement-

1. G.J.MENDEL
2. CHARLES DARWIN
3. J.B.LAMARK.
4. HARGOVIND KHORANA
5. M.S.SWAMINATHAN
6. WATSON AND CRICK
7. ALEXANDER FLEMMING
8. LOUIS PASTEUR
9. CARL LINNAEUS
10. ALFRED RUSSEL WALLACE
11. CRAIG VENTER
12. T.H.MORGAN
13. AUGUST WEISMAN
14. T.H. HUXLEY

2. Various Models of human body

1. Heart
2. Brain
3. Eye
4. Ear
5. Digestive system
6. Circulatory system
7. Respiratory system.

3. Models of insectivorous plants - pitcher plant and bladder wort

4. Human skeleton

5. Aquarium

6. Ecosystem models – Aquatic (pond) and Terrestrial Ecosystem (forest)

7. Life cycle of Butterfly And frog (MODEL made of FIBRE)

8. Insect Boxes (collection of insects according to order)

9. Agricultural Equipments – seed drill, model of combine harvester, sickle, tractor etc.

10. Model of steps of Human Evolution (big models) from Australopithecus to Homo sapiens.

11. Models showing anatomy of ROOT, STEM AND LEAF of monocot and dicot plants

12. Model of DNA

13. Model of plant and animal cells

14. Types of joint models (human body)

15. Model of water treatment plant

16. Museum specimens preserved in jars:

Sycon, jellyfish, tapeworm, ascaris, earthworm, leech, nereis, prawn, scorpion, Butterfly, octopus, pila, oyster, starfish, sea urchin, rohu, catla, scoliodon, frog, toad, salamander, snake, turtle.

17. Stuffed models of different birds- sparrow, pigeon, crow, peacock

18. Stuffed models of mammals - Rabbit, rat, squirrel.

19. Aquarium

20. Model of BEE HIVE

21. Model of solar system.

22. model showing tectonic plates and earthquake.

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List of equipments related to Physics

1. Telescope Of large size.
2. Periscope of large size
3. Working model of A.C. Generator.
4. Working model of D.C. Generator.
5. Working model of A.C. motor.
6. Working model of D.C. motor
7. Projector.
8. Electroscope.
9. Apparatus for Butterfly net experiment to show the charge on the surface of charged conductor.
10. Lactometer.
11. Ring, stand, ball and stove to show the thermal expansion.
12. Two plastic cups and thread to show the propagation of sound through the material(thread).
13. Echo tube large.
14. Apparatus for Bell Jar Expt. To show the propagation of sound.
15. Working model of electric bell.
16. Turn table .17 dancing monkey expt. to show the attraction between parallel current carrying wires. (Spring of conductor, stand, cup, mercury, battery, wire, plastic monkey)
18. Expt. to show C.G. goes down(a hollow conical body, a long triangular metal or wooden frame).

REQUIREMENTS FOR DISTRICT LEVEL SCIENCE CENTRE

Mathematics

1. Number system
2. Mensuration- area and volumes of different shapes.
3. Sets
4. Pythagoras theorem
5. Pie chart
6. Fraction
7. A moving quadrilateral
8. Transforming cubes
9. Sum of 3 angles of a triangle is 180 degree
10. Thales theorem
11. Sum of angles of a quadrilateral is 360 degrees
12. Parabola , Hyperbola, Ellipse.

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List of Equipments related to Chemistry

1. Periodic table Mendeleev and

GENERAL REQUIREMENTS FOR SCIENCE CENTRE

1. Bulletin board
2. glass almirah
3. exhaust fans
4. earthing
5. fire extinguisher
6. Lap top, LCD projector
7. rack
8. round table
9. chairs
10. fan
11. LED bulbs
12. electric board near rack

14. Vacuum distillation apparatus

15. BIO Gas Plant

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List of equipments related to Chemistry

1. Periodic table Mendeleev and Modern.
2. Rutherford's Expt.
3. J.J. Thomson's expt.
4. Origin of species
5. Burette , Pipette and Stands.
6. Distillation apparatus.
7. Filtration and separation apparatus.
8. Kipp's apparatus.
9. Discovery of chemistry.
10. Models of organic molecules.
11. Separating funnel.
12. PH meter.
13. Centrifugating apparatus
14. Vacuum distillation apparatus.
15. BIO Gas Plant