

J.R.M. INTERNATIONAL SCHOOL

Achhnera Road, Sahai, Bichpuri, Agra

Session 2025-26

Holiday Homework

Class – 11th

1. Physics:

Que 1. Explain Universal Law of Gravitation with its SI unit.

Que 2. Explain Kepler's Law.

Que 3. Explain Satellites. What are earth satellites? what is the use of satellites in our daily uses?

Que 4. Give the acceleration formula when we got above the earth surface.

Que 5. Explain the term conservation of momentum.

Que 6. Explain type of motions.

Que 7. Explain the given term:

a) Acceleration

b) Velocity

c) Instantaneous velocity

Que 8. Give laws of motion and also prove their equations by calculus method.

Que 9. What is escape velocity, centripetal force and centrifugal force?

Que 10. What do you mean by centre of gravity and moment of inertia?

2. Mathematics:

Do all examples of chapter 1 & 2 from NCERT book and R. D. Sharma book.

Make a project file on following topics, according to their roll number.

Topic 1. History of Indian Mathematicians Sridhara.

Topic 2. Make a chart on the topic set theory.

Topic 3. Draw graphs on type of functions along with domain and range. Write application of functions.

Topic 4. Make a chart of formula of trigonometric functions and write its uses in day to day life.

Topic 5. Mathematics and Chemistry.

Topic 6. History of Indian Mathematician Varahamihir.

Topic 7. Application of conic sections and 3d - geometry.

3. English:

- Write character sketch of the Grandmother from the chapter “The Portrait of Lady”
- Human life is short lived in contrast to nature. Comment on the statement in the light of the poem “A Photograph”

Note : - All the work must be done in fair note book.

4. Biology:

Topic 1. To study of Wild Life Sanctuary

Topic 2. To study of Bird Sanctuary

Topic 3. To study of Plant Kingdom

Topic 4. To study of Animal Kingdom

Topic 5. To study of Morphology of Flowering Plants

Topic 6. To study Cell : The Unit of Life

Topic 7. To study of Human Circulatory System

Topic 8. To study of Human Excretory System

Topic 9. To study of Plant Hormones

Topic 10. To study of Animal Hormones

Biology Topics Name Wise

Roll No.	Student's Name	Topic	Roll No.	Student's Name	Topic
01	Ayushi Narwar	Topic – 1	06	Kratika Solanki	Topic – 6
02	Gauri Singh	Topic – 2	07	Mohini	Topic – 7
03	Jatin Goswami	Topic – 3	08	Rishika Goswami	Topic – 8
04	Khushboo	Topic – 4	09	Yesh Rawat	Topic – 9
05	Kirti Singh	Topic – 5	10		

Note: Project file should be handwritten well printed and pictorial.

Content : -

1. Front Page
2. Certificate
3. Acknowledgement
4. Index
5. Introduction
6. Last page conclusion
7. Last page Bibliography

- This project file should be minimums 20 pages it is mandatory to all.