

J.R.M. INTERNATIONAL SCHOOL

Achhnera Road, Sahai, Bichpuri, Agra

Session 2025-26

Holiday Homework

Class – 12th

1. English:

Note: – The project should be handwritten, include a certificate of completion, acknowledgement, objectives, content about the assigned text and a bibliography.

There are topics for the project

- 1. Food Habits** – Explore the impact of food habit on health and environment. (Roll no. 01 to 06)
- 2. Digital India** – Investigate the impact of digital technology in India. (Roll no. 07 to 12)
- 3.** The effect of climate change. (Roll no. 13 to 18)
- 4.** The impact of social media on youth. (Roll no. 19 to 24)
- 5.** Functional English in our daily life. (Roll no. 25 to 30)
- 6.** Talking cultures (Roll no. 31 to 36)
- 7.** Influence of social networking. (Roll no. 37 to 44)

2. Mathematics:

- Do all examples of chapter – 1, 2 and 3 from NCERT book and R. D. Sharma book.
- Make a project file on following topics, According to their roll numbers.

Topic 1. Make a chart of the formula of application of calculus in file. (Roll no. 01 to 08)

Topic 2. Application of conic sections, vectors and 3d-geometry. (Roll no. 09 to 16)

Topic 3. History of Indian Mathematicians Aryabhata. (Roll no. 17 to 24)

Topic 4. Make a chart of formula of matrices and determinants, also write their applications.
(Roll no. 25 to 32)

Topic 5. Graph of all trigonometric functions, inverse trigonometric functions along with their domain and range. (Roll no. 33 to 40)

Topic 6. History of Indian Mathematician Ramanujan. (Roll no. 41 to 44)

3. Physics:

Topic 1. To study various factors on which the internal resistance/EMF of a cell depends.

Topic 2. To study the variations in current flowing in a circuit containing an LDR because of a variation in

a) The power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).

b) The distance of an incandescent lamp (of fixed power) used to 'illuminate' the LDR.

Topic 3. To find the refractive indices of

a) Water

b) Oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.

Topic 4. To investigate the relation between the ratio of

i) Output and input voltage and

ii) Number of turns in the secondary coil and primary coil of a self-designed transformer.

Topic 5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.

Topic 6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.

Topic 7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.

Topic 8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.

Roll No.	Student's Name	Topics (Physics)	Roll No.	Student's Name	Topics (Physics)
01	Abhay Singh	Topic – 01	23	Pratigya Singh Semar	Topic – 07
02	Abhishek Narwar	Topic – 02	24	Prince Kumar	Topic – 08
03	Abhishek Solanki	Topic – 03	25	Priya	Topic – 01
04	Achint	Topic – 04	26	Priyanshu Singh Sem.	Topic – 02
05	Anshika Gola	Topic – 05	27	Rani	Topic – 03
06	Anushka Sikarwar	Topic – 06	28	Sachi Pathak	Topic – 04
07	Arun Singh	Topic – 07	29	Sachin Singh Solanki	Topic – 05
08	Devraj Singh	Topic – 08	30	Sakshi Singh	Topic – 06
09	Gauri Sharma	Topic – 01	31	Saniya Narwar	Topic – 07
10	Jahnvi Sikarwar	Topic – 02	32	Saurabh Pathak	Topic – 08
11	Kapil Kumar Singh	Topic – 03	33	Saurabh Singh	Topic – 01
12	Kavita Kumari	Topic – 04	34	Shivali Solanki	Topic – 02
13	Kishan Gaur	Topic – 05	35	Shivani	Topic – 03
14	Kriti Dixit	Topic – 06	36	Simmi Sikarwar	Topic – 04
15	Kritika Singh Rajput	Topic – 07	37	Soniya Solanki	Topic – 05
16	Mahi Bansal	Topic – 08	38	Srishti Sikarwar	Topic – 06
17	Manvi Kuntal	Topic – 01	39	Tanu Chonkar	Topic – 07
18	Mohit Solanki	Topic – 02	40	Umesh	Topic – 08
19	Monika Solanki	Topic – 03	41	Vaishnavi Parmar	Topic – 01
20	Naveen Indoliya	Topic – 04	42	Vaisnavi Singh	Topic – 02
21	Pavy Singh	Topic – 05	43	Vineet Singh	Topic – 03
22	Prachi Chaudhary	Topic – 06	44	Yashmita Chaudhary	Topic – 04

Note :-

1. Project file may be computerized or handwritten, well printed and pictorial.

2. Project file contents –

- a) Front page b) Certificate c) Acknowledgement d) Index
e) Introduction

3. Last page conclusion and Bibliography

4. Biology:

Topic 01. To study the impact of global warming on the environment

Topic 02. To study the human reproductive cloning and biotechnology

Topic 03. To study the classification of Drug Addiction

Topic 04. To study the development of the Human Embryogenesis

Topic 05. To study DNA finger printing principles, Methods and Application

Topic 06. To study the Agricultural waste water treatment

Topic 07. To study the Transgenic Animal, Production and Application

Topic 08. To study the effect of Antibiotics on the Micro Organisms

Topic 09. To study on the infertility and its causes and treatment

Topic 10. The study the Method to Improvements of the Biogas Productions

Topic 11. To study the harmful effect of the mobile radiation on human body

Roll No.	Student's Name	Topics (Biology)	Roll No.	Student's Name	Topics (Biology)
01	Anshika Gola	Topic – 01	09	Simmi Sikarwar	Topic – 09
02	Jahnavi Sikarwar	Topic – 02	10	Soniya Solanki	Topic – 10
03	Jainish Angel	Topic – 03	11	Srishthi Sikarwar	Topic – 11
04	Manvi Kuntal	Topic – 04	12	Suhani Maheshwari	Topic – 01
05	Pavy Singh	Topic – 05	13	Tanu Chonkar	Topic – 02
06	Sachi Pathak	Topic – 06	14	Trapti Sharma	Topic – 03
07	Shakshi Singh	Topic – 07	15	Vaishnavi Singh	Topic – 04
08	Shivani	Topic – 08	16	Yashika Bhardwaj	Topic – 05

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4. This project file should be minimum 20 pages

➤ It is mandatory to all.