

J.R.M. INTERNATIONAL SCHOOL

Achhnera Road, Sahai, Bichpuri, Agra

Session 2026-27

Holiday Homework

Class – 12th Science

1. English:

Project file:

- Use A4 size sheets, preferably one sided rules / blank and submit in a file folder or spiral binding.
- The project must be handwritten paste pictures, collages or sketches on the left-side blank pages to make the project engaging.
- Use colours for headings, blue / black for text, coloured pen for heading but avoid red or green pens.

Project files structure:

- Cover page – Title, school name, student's name, roll no. session 2026-27.
- Acknowledgement – Thanking teacher and school
- Certificate – Teacher's signature
- Index / Content – Page wise details
- Introduction
- Main report (100 words) detailed investigations with photos / diagrams.
- Reflections / learning outcomes.
- Bibliography

There are topics for the project

1. Roll no. 01 to 10 Problems of child labour and existing laws in India (Lost spring)
2. Roll no. 11 to 20 Deteriorating parent – Children Relationship in India (My mother at sixty six)
3. Roll no. 21 to 30 Work and family stress in India and way out (Third level)
4. Roll no. 31 to 40 Adolescence characteristics and problems (Going places)
5. Roll no. 41 to 50 Impact of world wars on social economic and culture of world (Last lesson)

2. Mathematics:

- Prepare project on topic fundamentals of “Relations and functions” on milky file project file.

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	Aman Kumar	Topic – 1	24	Mayank Kumar	Topic – 8
02	Anshu Kuntal	Topic – 2	25	Mohini	Topic – 1
03	Aparna Dixit	Topic – 3	26	Mohit Kumar	Topic – 2
04	Arth Kushwah	Topic – 4	27	Mohit Narwar	Topic – 3
05	Aryan Narwar	Topic – 5	28	Mohit Sharma	Topic – 4
06	Ashish Solanki	Topic – 6	29	Monika Kumari	Topic – 5
07	Ayushi Narwar	Topic – 7	30	Monika Singh	Topic – 6
08	Braj Kishor Sikarwar	Topic – 8	31	Nandini	Topic – 7
09	Deepti Chhlonker	Topic – 1	32	Omendra Singh Pailwar	Topic – 8
10	Dev Singh	Topic – 2	33	Payal Solanki	Topic – 1
11	Devanshu Narwar	Topic – 3	34	Rishika Goswami	Topic – 2
12	Dimpy Parihar	Topic – 4	35	Rudra Pratap	Topic – 3
13	Gaurav Chaudhary	Topic – 5	36	Sahil Singh	Topic – 4
14	Gauri Singh	Topic – 6	37	Sarvesh Singh	Topic – 5
15	Gunjan Sharma	Topic – 7	38	Shivam Sharma	Topic – 6
16	Harshita Narwar	Topic – 8	39	Shivani	Topic – 7
17	Jaipal	Topic – 1	40	Shubham Solanki	Topic – 8
18	Jatin Goswami	Topic – 2	41	Sumit Sharma	Topic – 1
19	Jayant Solanki	Topic – 3	42	Tanu Singh	Topic – 2
20	Khushbu	Topic – 4	43	Yash Indoliya	Topic – 3
21	Kirti Singh	Topic – 5	44	Yash Kuntal	Topic – 4
22	Km Mohini	Topic – 6	45	Yash Rajput	Topic – 5
23	Kratika Solanki	Topic – 7	46	Yesh Rawat	Topic – 6

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	Ayushi Narwar	Topic – 01	12	Mohit Kumar	Topic – 01
02	Dimpy Parihar	Topic – 02	13	Mohit Sharma	Topic – 02
03	Gauri Singh	Topic – 03	14	Nandini	Topic – 03
04	Gunjan Sharma	Topic – 04	15	Omendra Singh Pailwar	Topic – 04
05	Harshita Narwar	Topic – 05	16	Payal Solanki	Topic – 05
06	Jatin Goswami	Topic – 06	17	Rishika Goswami	Topic – 06
07	Khushbu	Topic – 07	18	Sarvesh Singh	Topic – 07
08	Kirti Singh	Topic – 08	19	Yash Indoliya	Topic – 08
09	Km Mohini	Topic – 09	20	Yash Rajput	Topic – 09
10	Kratika Solanki	Topic – 10	21	Yesh Rawat	Topic – 10
11	Mohini	Topic – 11	22		

Note :-

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

2. Used A4 plane sheet.

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

3. Last page conclusion and Bibliography

4. This project file should be minimum 20 pages

Note – It is mandatory to all.

5. Chemistry:

Topic 1. Study of presence of oxalate ions in guava fruit at different stages of ripening.

Topic 2. Study of quantity of casein present in different samples of milk.

Topic 3. Preparation of Soyabean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, taste etc.

Topic 4. Study of the effect potassium bisulphate as food preservation under various conditions.

Topic 5. Study of digestion of starch by salivary amylase and effect of pH and temperature on it.

Topic 6. Comparative study of the rate of formation of wheat flour, gram flour, potato juice carrot juice.

Topic 7. Extraction of essential oil present in aniseed, carom, cardamom.

Topic 8. Study of common food adulterates in fat oil, butter sugar, turmeric powder chili powder and pepper.

Roll No.	Student's Name	Topics (Chemistry)	Roll No.	Student's Name	Topics (Chemistry)
01	Aman Kumar	Topic – 1	24	Mayank Kumar	Topic – 8
02	Anshu Kuntal	Topic – 2	25	Mohini	Topic – 1
03	Aparna Dixit	Topic – 3	26	Mohit Kumar	Topic – 2
04	Arth Kushwah	Topic – 4	27	Mohit Narwar	Topic – 3
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16	Harshita Narwar	Topic – 8	39	Shivani	Topic – 7
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6. Physical Education:

- Proficiency in game and sports (Skill of any one IOA recognized sports / games of choice)

7. Painting:

Still Life (Shading)

- Flower vase
- Table lamp, book cup plate on table
- Paint brush holder (pot three brush)
- Cup on book and apple
- Kettle, cup plate and bottle
- Any three fruits
- A bottle, glass and pot
- Two vegetable and a mug
- Four cup and a kettle
- Curtain mug and coconut

Nature Study (Colour with water colours)

- Labourer working
- Balloon seller
- A lady purchasing vegetables
- A composition of Lohdi
- Mountain scene
- Sun set scene
- Sun rise
- Birds on the tree
- Scene of wood
- Lotus in the pond (three)
- Five different painting of folk art (Mandala Warli, Madhubani)

Note: Do it in practical file