

GIRLS' HIGH SCHOOL AND COLLEGE, PRAYAGRAJ

SESSION: 2021-2022

CLASS: 7(A, B, C, D, E, F)

HALF YEARLY

1. MATHS PROJECT

Instructions: Parents are expected to ensure that the child goes through the examples given in the textbook to solve the questions given below. The project can be done in any notebook.

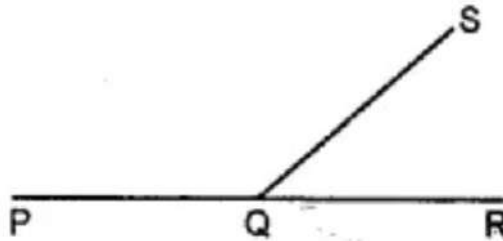
TOPICS: 1. Lines and Angles
2. Triangles

Solve the following:

Q1. In the given figure, PQR is a straight line. If angle SQR = $(x+25^\circ)$ and angle PQS = $(3x + 15^\circ)$.

Find the value of:

i. x



ii. Angle PQS

iii. Angle SQR

Q2. Three angles which add upto 180° are in the ratio 2:3:7. Find them.

Q3. In a triangle, if angle A = 72° and angle B = 65° , find the measure of angle C.

Q4. In a right-angled triangle, if one of the acute angles measures 40° , find the measure of the other angle.

(Note: All the constructions to be done by using ruler and compasses only.)

Q5. Construct the following angles:

i. 90°

ii. 30°

Q6. Construct an angle of 75° and then bisect it.

Q7. Draw a line segment $PQ=7\text{cm}$. Mark a point A in PQ so that $AP=3\text{cm}$. At point A, construct angle $QAR=60^\circ$.

Q8. Construct an equilateral triangle ABC such that $BC=5\text{ cm}$.

Q9. Construct a right-angled triangle ABC in which $AB=4.2\text{ cm}$, $BC=4.5\text{ cm}$ and angle $B=90^\circ$.

Q10. Construct a triangle ABC such that $AB=AC=6\text{ cm}$ and $BC=5.2\text{ cm}$.

2. HISTORY PROJECT

TOPIC – RISE OF CHRISTIANITY

NOTE: - Parents, please ensure that the student uses a history book (My book of History & Civics by Manju Bhashini) or internet to write this project. Any notebook can be used. Paste pictures on left side of the page related to the matter.

(Pg 1-3) Index, Acknowledgement, Introduction of the topic

(Pg 4-15) Heading: Rise of Christianity, Birth of Jesus Christ, Main teaching of Jesus, Crucifixion of Jesus, Main principles of Christianity and Role of Emperor Constantine in the spread of Christianity, Bibliography.

3. GEOGRAPHY PROJECT

TOPIC-GLOBAL WARMING -IMPACTS AND MEASURES TO CONTROL IT

INSTRUCTIONS: Parents, please ensure that the student uses a Geography book (Around the World by Ratna Sagar) or Internet to write this project. Any notebook can be used. Pictures related to the matter can be pasted on the left side of the page.

Pg-(1-3) Topic, Index, Introduction.

Pg-(4-10) Headings: Activities which cause global warming, Impacts of global warming (five impacts), Conclusion- Measures taken to control global warming, Bibliography.

4. **PHYSICS PROJECT**

Instructions: Parents are expected to ensure that the student refers to the Physics book or internet to write this project. Any exercise book can be used. The project should be of 8-10 pages.

Topic: Motion

Subject matter:

Collect information on the types of motion. Write in detail and draw diagrams or paste pictures related to the following:

- Define motion.
- Briefly explain any 5 different types of motion.
- Give 2 examples of each.

5. **CHEMISTRY PROJECT**

Note :

1. Students are suggested to search for topic related details from books or internet.
2. Students can use any exercise-book available to them, for the project work.
3. Page limit is approximately 8 to 10 pages.
4. Students must paste topic related pictures.
5. The project work must be neatly done involving the student's creativity.

Topic : Physical and Chemical changes

Subtopics :

- I. Physical change: Definition, its characteristics and explanation of any five examples.
- II. Chemical change: Definition, its characteristics and explanation of any five examples.
- III. Differences between a physical change and a chemical change.

6. **BIOLOGY PROJECT**

Instructions- Parents are expected to ensure that the student refers to the Biology book or internet to write this project. Any exercise book can be used. The project should be of 8-10 pages.

TOPIC- Tissue

Subject matter: Collect information of the following animal tissues- Epithelial, Connective, Muscular and Nervous tissue

- Draw diagrams / paste pictures of the above mentioned animal tissues.
- Write about the location, structure and function of each kind of tissue.

THE END