SHAMBHU DAYAL GLOBAL SCHOOL HOLIDAY HOMEWORK (2024-25) CLASS XI SCIENCE

ENGLISH	RESEARCH PROJECT
	TOPICS:
	 Talking Cultures (Speaking Etiquettes) Roll N0- 1-4 "Earn While You Learn" Roll No 5-8 Parents should control their kids "Social Media Accounts" Roll No- 9-12 How Depression Affects Human Behaviour? Roll No 13-16 Influence of Modern Technology on the Quality of the Education. Roll N0- 17-20 How has the Role of Women in the Military changed? Roll N0-21-24 Cyber Crime is the New Terrorism. Roll No 25-28 European Influence on Fashion in the world. Roll No- 29-32 Influence of Mother Tongue in English Language. Roll No 33-36 Does Beauty determine how much a person will be successful in life?RollNo-37-40 People Management and Leadership Qualities. Roll No 41-44 NOTE- This project-Portfolio is a compilation of the work that the students will submit in the first week of July.
	• Individually Student has to prepare The Research
	Project.
	• Annual Viva (ASL) will be conducted based on this project only in the month of January
	*The Project Only in the month of January.
	areas:
	* Cover page, Title page, school details.

	*Abstract and Table Content
	* Statement of purpose/ objectives/Goals
	* Literature Review
	* Research Design and Methods
	* Implication and Contribution to Knowledge (Acknowledgement)
	* Certificate of completion under the guidance of the teacher.
	* The 800-1000words essay/script/ Report
	* If possible, photograph that Capture the positive experience of the students.
	* Reference (List of resources)
	NOTE- Research Project Word Limit (800-1000 essay/script/ Report)
	*The following points must be kept for consideration while assessing the project portfolios
	*Quality of content of the project
	*Accuracy of information
	*Adherence to the specified timeline
	*Content in respect of (spelling, Grammar,
	Punctuation)
	*Clarity of thoughts and ideas
	*Creativity
	* Knowledge and experience gain
PHYSICS	Write down these Two Experiments from NCERT Lab
	Manual into a new practical file
	1. Use of vernier Callipers to (i) measure diameter of a small spherical/cylindrical
	body,
	(ii) measure the dimensions of a given regular body
	of known mass and hence to determine its density; and

	2. Use of screw gauge to (a) measure diameter of a
	given wire, (b) measure thickness of a given sheet;
	and
CHEMISTRY	Write down the given practical in your fair practical
	notebook-
	1. Quantitative Estimation
	i. Using a mechanical balance/electronic balance.
	ii. Preparation of standard solution of Oxalic acid.
	iii. Determination of strength of a given solution of
	Sodium hydroxide by titrating it against standard
	solution of Oxalic acid.
	iv. Preparation of standard solution of Sodium
	carbonate.
	v. Determination of strength of a given solution of
	hydrochloric acid by titrating it against standard
	Sodium Carbonate solution.
	2. Qualitative Analysis
	a) Determination of one anion and one cation in a
	given salt
	Cation- lead, copper, arsenic, iron, manganese,
	nickel, zinc, cobalt.
	Anion- carbonate, nitrate, sulphate, acetate, nitrite,
	sulphide.
	b) Detection of -Nitrogen, Sulphur, Chlorine in
	organic compounds.
BIOLOGY	1. Prepare a detailed research paper, PPT and Spiral bound
	file from the topic of your choice.
	List of Investigatory projects-
	a) To isolate caffeine from tea leaves.
	b) To determine the amount of Vitamin C in selected
	samples of fruit juices.
	c) To determine the amount of casein present in different
	samples of milk.
	d) To study the presence of insecticides and pesticides in
	various fruits and vegetables.
	e) Preparation of soybean milk and its comparison with the
	natural milk with respect to curd formation, effect of
	temperature, taste etc.
	r) Proxymal Supraventrical Tachycardia, Epidermodysplasia
	verruciformis, Kawasaki Disease, Progeria, Hunter's
	Syndrome, Genetic Abnormalities, Vampire Disorder, Mad
	Cow Disease, Fibrodysplasia ossificans Progressiva,
	Abdominal Cocoon etc
	Assessment Criterion- Content, Presentation, Research
	work, Case

study, Viva-voce and Confidence.	
2. Complete experiment no 1 to 5 in your practical	
notebook.	
3. Solve the assignment questions.	
A.In Opuntia, the stem is modified into a flatten	ed
green structure that performs the function of	
photosynthesis. Give two other examples of	
modifications of the plant parts for the process	of
nhotosynthesis	01
B Differentiate between the following terms –	
i)Bracteole and Bract	and
	anu
Fullinus	and
	kanu
v)Staminoid and Stamen	
C.Roots obtain Oxygen from the air for the proc	cess of
respiration. In the absence or deficiency of Oxy	gen, the
root growth gets restricted and stops completel	y. So
how do the plants growing in marshlands or sw	amps
obtain the Oxygen required for root respiration	?
D. Rearrange the following zones as observed	in the
vertical section of the roots and choose the cor	rect
option.	
Root hair zone, Zone of meristems, Rootcap z	one,
Zone of maturation, zone of elongation	
E. Why is maize grain usually called as a fruit a	and not a
seed?	
F. Stolon, offset and rhizome are different form	s of
stem modifications. How can these modified fo	rms of
stem be distinguished from each other?	
G. The mode of arrangements of sepals or pet	als in a
floral bud is known as aestivation. Draw the val	rious
types of aestivation possible for a typical penta	merous
flower	merous
Mathematics Activities (To be done in practical fil	0)
Activity 1: To find the number of subsets of a given	cot and
Activity 1. To find the number of subsets of a given	set allu
verify that if a set has in number of elements, then the	le total
number of subsets 1s2.	T 7
Activity 2: To represent set theoretic operations using	ng venn
diagrams.	
Activity 3: To distinguish between a Relation and a	
Function.	
Activity 4: To verify the relation between the degree	ee
measure and the radian measure of an angle.	

	Activity 5: To find the values of sine and cosine functions in
	second, third and fourth quadrants using their given values in
	first quadrant.
AI	1-Create projects given in the topics of AI basics, Computer
	vision and Python.
	2-Do given Python programs paste the code as well as the
	output.
	List of Python programs:
	1. Accept two numbers from the user and find the
	maximum of the two numbers.
	2. Write a program to accept principal amount, time and
	rate of interest from user. Calculate and print simple
	interest.
	3. Write a program to check if year is a leap year or
	not.
	4. Write a python program to swap the value of two
	variables.
	5. Write a python program to check whether the
	accepted number is positive, negative or zero and display
	the appropriate message.
DTI	For I: Visually Map your Journey from Home to
	School
	I his task is to visually draw a map of the journey from your
	nome to school. If there are multiple paths, draw multiple
	paths to reach the school. The mapping will involve both
	quantitative figures as well as qualitative figures,
	Quantitative figures could be the distance and time to reach
	huildings lamp posts at a given interesting things like
	buildings, famp posts, etc., even interesting unings like
	multiple of people wearing colour fed dress, taking on mobile slooping animals at can be observed and noted
	Qualitative figures could be your energy level, the brightness
	of the suppline, sound levels, excitement/enthusiesm level
	of the suffshine, sound levels, excitement/enulusiasin level,
	1. Observe 3 quantitative variables and 3 qualitative
	variables during the journey from your home to school
	2 Man the path of the journey on an A3 size sheet of paper
	If there are multiple paths do note down these paths
	3 Draw and write the names of the major landmarks in your
	journey on the map according to their location. The size of
	buildings trees etc. needs to be scaled down
	4. Mark 5 points along the map and visually show both the
	quantitative and qualitative variables at these points
	Topic 2 : Design Charts about the Statistics of your School

A chart visually represents data or information in the form of
numbers and figures. These are some of the common forms
of charts:
(a) Bar Chart,
(b) Line Chart and
(c) Pie Chart.
 One can make these charts easy to understand by including visuals in its representation. The challenge for you is to look at different statistics concerning your school and make a poster with these charts. 1. Collect information about your school – could be the numbers about students, different classes, teachers and staff members, classrooms, facilities, results, competitions, events, holidays, timings, etc. 2. Each group selects at least 4 different statistics to do information design 3. Ideate how to represent these figures so that they can be understood easily and is interesting to look at 4. You should sketch alternatives, discuss how to improve
them and select the best ones to take forward
5. Draw/ Illustrate these as well as you can (you could use
colours and textures)
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Topic 3: Design Directional Signage for your School
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PHE	Research project On Roles and Responsibilities of Physical Education Professionals
	Topic: - career options in physical education
	 Physical education teacher/coach Roll N0-1-9 Fitness trainer Roll N0-10-18 Sports therapist Roll N0-19-27 Recreation therapist Roll N0-28-36 Sports administrator Roll N0-37-45 Sports psychologist Roll N0-46-53 The following points must be kept for consideration while assessing the project portfolios
	1.Introduction
	 Definition of physical education. Importance of physical education in society. Overview of the project's objectives and structure.
	2.Educational Requirements and Training
	 Academic qualifications: Degrees in physical education, exercise science, kinesiology, sports medicine, or related fields. Certification and licensure: Requirements vary depending on the specific career path but may include certifications from organizations like the American College of Sports Medicine (ACSM), National Strength and Conditioning Association (NSCA), or National Academy of Sports Medicine (NASM). Practical experience: Internships, volunteer work, and practical training are often valuable for gaining hands-on experience in the field.
	3. Career Opportunities in Different Settings
	 Schools: Physical education teachers/coaches in elementary, middle, and high schools. Colleges and universities: Physical education instructors, coaches, athletic directors, and sports administrators.

0 0 0	Fitness centers: Fitness trainers, group exercise instructors, personal trainers, and wellness coaches. Hospitals and clinics: Sports therapists, physical therapists, and rehabilitation specialists. Community organizations: Recreation therapists, sports program coordinators, and sports event organizers. Corporate wellness programs: Health and wellness coordinators, fitness program managers, and employee wellness coaches.
4. Trends and	l Future Outlook
0	Growing demand for physical education professionals due to increasing awareness of the importance of physical activity for health and well-being. Emerging trends such as online fitness coaching, tele-rehabilitation, and virtual reality fitness experiences. Opportunities for specialization in areas like adaptive physical education, sports analytics, sports nutrition, and sports psychology.
5. Skills and (Qualities for Success
0 0 0 0	Strong communication and interpersonal skills. Knowledge of exercise science, anatomy, and physiology. Passion for health, fitness, and sports. Leadership abilities and teamwork skills. Adaptability and problem-solving skills.
6. Challenges	and Rewards
0	Challenges may include job competition, long hours, and physical demands. Rewards may include making a positive impact on people's lives, opportunities for personal and professional growth, and the satisfaction of helping others achieve their fitness and wellness goals.

	7. Conclusion
	 Recap of key points regarding career options in physical education. Encouragement for students to explore various career paths and pursue their interests in the field. Emphasis on the importance of physical education professionals in promoting health and wellness in society.
	8. References
	• List of sources cited in the project.
	NOTE-
	 *Individually Student has to prepare The Research Project. *The Research Project 800-1000words essay/script/ Report * This Project-Portfolio is a compilation of the work that the students will submit in the first week of July. *If possible, photograph that Capture the positive experience of the students. *Remember to structure your research project with clear headings, subheadings, and a logical flow of information. *You can include illustrations or diagrams to enhance understanding, especially when explaining different types of postural deformities or corrective exercises.
SCULPTURE	PROJECT WORK- PRACTICAL-Construct a small sculpture using clay, paper mache, or any other materials available. Focus on form and texture. Size minimum -5 to 10 inch THEORY- All students make 5-5 multiple choice questions from each chapter. write down in your sculpture notebook.
C.ARTS	Q.1 Explain the types of colors with respect to their purity and mixing?

Q.2 Describe the effects and emotions aroused by any four
types of lines.
Q.3 Define texture with examples.
Q.4 Write a short note on the following
(a) Form (b) Tone (c) Space (d) Dominance
Q.6 Write a short note on the following
(a) Upper Paleolithic period
(b) Mesolithic Period
(c) Early History Period
(d) Medieval Period
Q.7 What was the special skill with Chitralekha?
Q.8 Give the translated meaning of terms 'Praman', Lavanya
Yojna', Varnika Bhang?
Q.9 Explain the location of the main sites of Indus valley
civilization.
Q.10 Describe the historical as well as artistic aspects of the
idol 'Dancing girl'
Q.11 Describe the fundamentals of art?
Q.12 How can the colors be classified? Describe any three.
All students write down this question answer in your
commercial art notebook
O 13 Doutfolio Duojoot
Q.13 I OI HOHO I TOJECI
Prepare a portfolio project on the given topic
Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet
Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet (a) Cultural activity
Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet (a) Cultural activity (b) Still life
Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet (a) Cultural activity (b) Still life (c) Nature Composition
Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet (a) Cultural activity (b) Still life (c) Nature Composition (d) Sports
Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet (a) Cultural activity (b) Still life (c) Nature Composition (d) Sports (e) And prepare 2 Posters each on Apparel advertisement
 Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet (a) Cultural activity (b) Still life (c) Nature Composition (d) Sports (e) And prepare 2 Posters each on Apparel advertisement and Food advertisement
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 Q.15 Fortiono Project Prepare a portfolio project on the given topic 1) Illustrate in watercolor on an A2 size sheet (a) Cultural activity (b) Still life (c) Nature Composition (d) Sports (e) And prepare 2 Posters each on Apparel advertisement and Food advertisement Q.12 Human composition (a) Vegetable market scene
 Q.15 Fortiono Project Prepare a portfolio project on the given topic Illustrate in watercolor on an A2 size sheet Cultural activity Still life Nature Composition Sports And prepare 2 Posters each on Apparel advertisement and Food advertisement Q.12 Human composition Vegetable market scene Balloon man
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DATA. SCIENCE	Read and research about BOX and WHISKER PLOTS. And using your findings represent the following data in a Box plot Marks of 10 students out of 15 are as follows – 5, 12, 14, 10, 5, 6, 3, 8, 11, 3
MEDICAL DIAGNOSTICS	Students will prepare a Project Report on below activities . They may get the guidance from their respective teacher and in order to boost their skill and knowledge. The Project should be the sole work of student
	 The students will find out the presence of Ketone Bodies in Laboratory by Legal test. The students will find out the presence of Ketone Bodies in Laboratory by Rothera's test. The students will find out the presence of Bile salt in given urine sample with the help of sulphur powder test The students will find out the presence of blood in given urine sample by Benzidine test. The students will prepare charts and present the functions of body fluids. The students will draw the diagram of circulation of CSF in human body. The students will draw the diagram of normal and abnormal sperms. Students will draw and write five characteristic features of : a. Cerebellum b. Tongue c. Esophagus d. Stomach e. Duodenum f. Jejunum g. Ileum h. Large intestine i. Lungs j. Muscles (Skeletal, Cardiac and Smooth) k. Kidneys l. Ureters m. Skin n. Testis o. Ovary p. Uterus The students will draw the diagrams of all histopathological tissues in their file with their characteristic
LEGAL STUDIES	features OBJECTIVES OF THE PROJECT:
	The project work aims to enable students to: identify a legal problem and provide its remedy select relevant legal sources and conduct research analyze and distinguish between types of cases apply case laws and relevant statutory laws Students can out for any ONE Project from the three tarias
	students can opt for any ONE Project from the three topics given below:

Topic 1: Students can prepare a research project addressing
legal issues related to any topic from the textbook or around
them that needs immediate redressal.
Some suggested topics-
Uniform Civil Code
□ Law reforms in India
□ Juvenile Justice
Death Penalty
□ Any other course related topic
OR
Topic 2- Students can conduct research and draft a report on any recent legislation/ amendment that brought about a social change, for example: Consumer Protection Act, Information Technology Act, Right to Information Act etc. To conduct research students can examine the conditions that give rise to the need for law reform; the agencies of reform; mechanism of reform; Assess the effectiveness of law reform in achieving just outcomes regarding the issue.
 METHODOLOGY FOR TOPICS 1 & 2: The project file should be at least 20 pages. Steps: - Choose a topic Gather information from various sources Write a statement of purpose of the project Support it with research evidence Presentation of project should include headings List the sources
OR
 Topic 3- Understanding the important elements of 'JUDICIAL DECISION'. OBJECTIVES: The project work aims to enable students to: identify a legal problem and provide its remedy select relevant legal sources and conduct research analyse and distinguish between types of cases apply case laws and relevant statutory laws understand parts of a judicial decision
METHODOLOGY FOR TOPIC 3:

	1. The student must select any 5 decided cases where in one
	case is criminal, one is civil, one is constitutional, one is
	related to international law, and one is student's choice (PIL
	it possible).
	2. The research on the cases must include the following
	points:
	a. Name of the case
	b. Parties to the case
	c. Nature of the case (Civil, Criminal or Constitutional) d.
	Facts of the case and issues involved
	e. Decision of the case
	f. Citation of the case
ENTREPRENEURSHIP	PROJECT- PROFILE OF AN ENTREPRENEUR
	You can select any FAMOUS ENTREPRENEUR (DO
	NOT COPY FROM EACH OTHER)
	MARKS ARE SUGGESTED TO BE GIVEN AS:
	ORIGINALITY- 12 MARKS
	CONTENT& PRESENTATION 8 MARKS CREATIVITY
	5 MARKS
	WRITTEN TEST 5 MARKS
	TOTAL 30 MARKS
	THE PROJECT FILE SHOULD BE IN THE FOLLOWING
	ORDER: Cover page showing project title, student
	information, school and year. Acknowledgements
	(Acknowledging the institution and people who have helped.
	□ Index containing the list of
	contents with page numbers. \Box Content of the project along
	with pictures. Bibliography should have the details of
	reference materials and the websites visited