

July

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Inter- disciplinary & SDG
1-15 12	FPG	Chapter 1: Geography as a discipline	<ul style="list-style-type: none"> • Explain the meaning of geography as an integrating discipline. • State the fields of geography and its relationship with other disciplines. • Explain the approaches to study geography 	Discuss with your partner: Geography is the study of “areal differentiation.”	Social Science & Geography
16-31 14	FPG & Pract	Chapter 2: Origin and Evolution of Earth <hr/> Chapter 3: Interior of Earth	<ul style="list-style-type: none"> • Describe the Big Bang, Planetesimal theory, Nebular Hypothesis related to the origin of the universe. • Describe direct and indirect sources of information about the interior of the earth. • Discuss Earthquakes—its causes and effects, define: Epicentre, Hypocentre, Earthquake waves and its propagation, Shadow zones, Measuring the intensity of earthquakes. • Explain the interior structure of the earth. • Explain Volcanoes, its types, and volcanic landforms. 	Draw a diagram of a volcano and mark the following parts: a. Magma Chamber b. Vent c. Central Pipe d. Lava flow e. intrusive volcanic forms.	Physics & Geography

Unit Test- 1: Syllabus: - FPG - L-1, 2 & 3

August

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Activity/ Inter- disciplinary
1-15 11	FPG	Chapter 4: Distribution of Oceans and Continents. ----- Chapter 5: Geomorphic Processes	<ul style="list-style-type: none"> • Provide evidence in support of continental drift and force for drifting. • Explain Post drift studies, Convectional current theory, Mapping of the ocean floor, Ocean floor configuration, Concept of sea floor spreading, • Describe theory of plate tectonics and different types of plate boundaries. • Trace the movements of Indian Plate. ----- • Differentiate between geomorphic processes and geomorphic agents. • Describe factors that affect soil formation. • Define the following terms: Exfoliation, Denudation, Weathering etc. 	Prepare a concept map to show different Exogenic and Endogenic Processes.	History and geography
16-31 11	FPG & Pract	Chapter 6: Landforms and Evolution. ----- Practical Work: 1 to 4	<ul style="list-style-type: none"> • Describe and draw various erosional and depositional landforms created by different agents. • Students will be able to compare and analyze various landforms. • Locate different landforms (mountains, plateaus, plains) on the outline map of the world. ----- Construction and properties of projection: Conical with one standard parallel and Mercator's projection. (only two projections) 	Construction of Map Scale, Long & Lat, Measuring time from Longitude and sunrays.	Geometry & Geography

September

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Inter- disciplinary Activity/
1-15 11	FPG	Chapter 7: Atmosphere composition and structure ----- Chapter 8: Solar Radiation	<ul style="list-style-type: none"> • Describe the composition and characteristics of different layers of atmosphere. • Correlate climate change with Sustainable Development Goals13: Climate Action. ----- • Differentiate between solar radiation and terrestrial radiation. • Give reasons for variability of insolation at the surface of the earth. • Explain the heat budget of the planet earth. • Describe factors controlling temperature distribution. • Explain inversion of temperature. 	Calculate Heat Budget of the earth	Climate action
16-30 13		Term-I Examinations	Term-I Examinations	Term-I Examinations	

Term-I Syllabus: - FPG - Chapters: 1, 2, 3, 4, 5, 6, 7 & 8 / Practicals - Chapters: 1 to 4

October

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Activity/Inter- disciplinary
1-15 11	FPG & Pract	Chapter 9: Atmospheric circulation and weather systems	<ul style="list-style-type: none"> Describe the permanent pressure belts and the prevailing winds. Explain different types of winds. Differentiate between tropical and extra tropical cyclones. Realize how global warming is result of atmospheric pollution and how it can be minimized if not prevented. 	Case study of Cyclones	Climatology and geography
16-31 9	FPG	Chapter 10: Water in the atmosphere ----- Chapter 12: Water -Basics of Oceanography	<ul style="list-style-type: none"> Explain the process of precipitation and its different forms. Analyze the variation in the distribution of rainfall in the world. Describe the basic processes involved in hydrological cycle with the help of a well labelled diagram. Describe the relief features of the ocean floor. Explain the process of heating and cooling of oceanic water and factors that affect temperature distribution in the ocean. Describe the salinity of ocean waters. 	Make a list of different forms of condensation and precipitation and record a pic of them.	Physics and geography

November

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Activity/Inter- disciplinary
1-15 9	FPG	Chapter 13: Movements of ocean water	<ul style="list-style-type: none"> Explain tides, currents, and waves. Analyze the economic significance of tides. Describe ocean currents and the forces that influence them. Distinguish between cold and warm ocean currents. 	Mark and label the major warm and cold currents on an outline world map.	Physics and geography
16-30 12	IPE	Chapter 1: India: Location ----- Chapter 2: Structure and Physiography	<ul style="list-style-type: none"> Describe the location of India mentioning the surrounding water bodies. Analyse the implications of living in a country with vast longitudinal and latitudinal extent and its impact on the standard time of India. Explain the vastness of India and the diversity it. Explain the evolution of various geological structures in different parts of the country. Describe major physiographic divisions and the processes of their formation. Locate the major physical features on the map of India. 	Virtual tours of physiographic divisions through virtual globes - Google Earth	Life on land

Unit Test - 2: -Syllabus: - FPG - L-13, 14, 16

December

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Activity/Inter- disciplinary
1-15 12	IPE	Chapter 3: Drainage systems ----- Chapter 4: Weather and climate	<ul style="list-style-type: none"> Understand the major drainage systems of India. Analyze the causes of river water pollution. Differentiate between Himalayan and Peninsular rivers. Discuss the factors affecting climate of the country and its effect on country's economic life. Understand the annual cycle of four main seasons in India. Able to realize the causes and problems of climate changes. Able to understand the concept of Global Warming. 	Drainage identification through virtual globe, Correlating climate & natural vegetation	Math's and Science and geography
16-31 13	Pract	Practical:	Ch-5: Topographical maps. Ch-6: Aerial Photographs. Ch-7: Introduction to remote sensing. Ch-8: Weather Instruments	Hands-on activities- GIS software	IT and geography

January

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Activity/Inter- disciplinary
1-15		Winter Break			
16-31 12	IPE & DM	Chapter 5: Natural vegetation	<ul style="list-style-type: none"> The students will be able to recognize the importance of forest cover in the country and its spatial distribution. They will learn about number of species of plants and animals in India. They will appreciate the efforts in conservation of forests and wildlife. 	Earthquake activities	Ecology and geography

February

Date/ Days	Book	Content	Learning outcomes	Assignment/HW	Activity/Inter- disciplinary
1-15 12		Revision for annual Exam	Revision	Revision	Revision
16-28 12		Annual Examination	Revision	Revision	Revision

Annual Exam Theory Syllabus: FPG: 1 to 10, 12 & 13. IPE: 1 to 5. Practical Syllabus: 1 to 6.

Map Items for locating and labelling on outline political World Map

Fundamentals of Physical Geography

□ Political Map of all Continents of the world. □ Major Oceans of the world: Indian Ocean, Pacific Ocean, Atlantic Ocean, Arctic Ocean, Southern Ocean □ Major lithospheric plates and Minor lithospheric plates, Ring of fire (Pacific Ocean), Mid-Atlantic Ridge.

Major Hot Deserts of the world: □ Mojave Desert- Nevada, US □ Patagonian Desert- Argentina □ Sahara- Africa □ Gobi Desert- Mongolia, Asia □ Thar desert- India □ Great Victoria desert- Australia

Major Seas □ Black sea □ Baltic sea □ Caspian Sea □ Mediterranean Sea □ North Sea □ Red sea □ Bay of Fundy (Canada)

OCEAN CURRENTS-Cold currents □ Humboldt c. □ California c. □ Falkland c. □ Canaries c. □ West Australian c. □ Oyashio c. □ Labrador c. Warm currents □ Alaska c. □ Brazilian c. □ Aughlas c. □ Kuroshio c. □ Gulf stream c

Ecological hotspots □ Eastern Himalaya, India Western ghats, India □ Indonesia, Asia □ Eastern Madagascar, Africa □ Upper Guinean forests, Africa □ Atlantic forest, Brazil □ Tropical Andes

Map Items for locating and labelling on outline political map of India

India Physical Environment

Latitudinal extent of India □ Longitudinal extent of India □ Standard Meridian of India □ Important latitude passing through India (Tropic of Cancer) □ Southern Most Point of main land of India (Kanya Kumari)

□ Mountains: Karakoram Range, Garo- Khasi- Jaintia hills, Aravalli Range, Vindhyan Range, Satpura Range, Western ghats & Eastern ghats □ Peaks: K2, Kanchenjunga, Nandadevi, Nanga Parvat, Namcha Barwa and Anaimud □ Passes: Shipkila, Nathula, Palghat, Bhor ghat and Thal ghat □ Plateaus: Malwa, Chhotnagpur, Meghalaya and Deccan Plateau. □ Coastal Plains: Saurashtra, Konkan, North and South Kanara, Malabar, Coromandel and Northern Circars □ Islands: Andaman & Nicobar Islands and Lakshadweep Islands

Rivers: Brahmaputra, Indus, Satluj, Ganga, Yamuna, Chambal, Damodar Mahanadi, Krishna, Kaveri, Godavari, Narmada, Tapi and Luni □ Lakes: (Identification)Wular, Sambhar, Chilika, Kolleru, Pulicat & Vembanad □ Straits, Bays, Gulfs: Palk Strait, Rann of Kachch, Gulf of Kachch, Gulf of Mannar & Gulf of Khambat

Area with highest temperature in India □ Area with lowest temperature in India □ Area with highest rainfall in India □ Area with lowest rainfall in India

(Identification on an outline map of India) Tropical evergreen, Tropical deciduous, Tropical thorn, Montane and Littoral/Swamp forests. Wildlife reserves: (locating and labeling) □ National Parks: Corbett, Kaziranga, Ranthambore. Shivpuri, Simlipal □ Bird Sanctuaries: Keoladev Ghana and Ranganathitto □ Wild life Sanctuaries: Periyar, Rajaji, Mudumalai, Dachigam,