Baselios Public School

Managed by the trust of the society of St. Basil
Academic Year 2026-27
Holiday Assignment - Grade-11

ENGLISH	Theme Collage Activity – Literature in Visual Form Students will create a theme-based collage using newspaper cuttings, magazine images, drawings, and words to visually represent one of the following themes: Fear, Courage, or Inequality. The collage should not only be decorative but also reflect a clear understanding of how the chosen theme is explored in the prescribed lessons and poems of Class 11 English (Hornbill & Snapshots). Examples: Courage: Courage gives strength in difficult situations (We're Not Afraid to Die…). Loss & Memory: Memories keep our loved ones alive (A Photograph by Shirley Toulson). Freedom: Education gives freedom and dignity (The Summer of the Beautiful White Horse).
PHYSICS	Investigatory project: Physics Introduction and Theory: Define the physical principles involved, such as Total Internal Reflection (TIR) for optics and signal transduction for electronics. Construction and Components: Provide a detailed list of materials, including LEDs, photodiodes, fiber optic cables, breadboards, and power sources. Working Mechanism: Include clear diagrams of both the optical path and the electronic schematic. Data Collection: Record measurements for different fiber lengths or bending angles to demonstrate the relationship between physical variables and signal strength. Conclusion: Summarize how the fusion of optics and electronics enables modern communication technology
CHEMISTRY	1. Complete the chemistry investigatory project. 2. CREATIVE CHEMISTRY "Journey Inside an Atom" (Infographic) ROLL NO. 1 TO 6 SHALL DO TOPIC I AND 7 TO 11 TOPIC II I. Create a colorful infographic in a A4 SHEET showing: * Structure of an atom (protons, neutrons, electrons)

	* Models of atom (Dalton → Thomson → Rutherford → Bohr) * Energy levels and electronic configuration Make it visually attractive with diagrams and flow arrows. II. "Quantum Numbers Made Easy" (Concept Map in a A4 sheet) Prepare a concept map explaining: * Four quantum numbers (n, l, m, s) * Their significance Use symbols, short examples, and color coding. 3. Complete the numerical worksheet as given in class group.
MATHEMATICS	To draw graphs of all the six trigonometric functions in graphs LAB MANUAL ACTIVITIES i. To find the total number of subsets of a given set and verify that if a set has n number of elements then total number of subsets is 2^n ii. To verify that for two sets A and B ,$n(A \times B) = pq$ and the total no. of rel ations fromA to B is 2^{pq} iii. To represent set theoretic operations using Venn Diagrams. To identify relation and Function
IP	Make documentary on any topic of your choice
PE	Make practical project files, studying Olympic values, researching Khelo India, and complete assignments on yogic kriyas (Shatkarma) or fitness tests