|  |  |
| --- | --- |
|  IB DP Physics | **Standards-Based EducationPriority Standards** |
| **12th Grade** |
| *The Physics of Motion* |
| IBPH.1 | Analyze and solve problems involving Realm of Physics including measurements, estimations, uncertainties, and graphical analysis. |
| IBPH.2 | Analyze and solve problems involving Vectors and Scalars |
| IBPH.3 | Analyze and solve problems involving Kinematics including Linear, Circular, and SHM situations. |
| IBPH.4 | Analyze and solve problems involving Dynamics including Forces, Momentum, and Energy Conservation situations. |
| *Waves and Periodic Motion* |
| IBPH.5 | Analyze and solve problems involving Oscillations and Waves |
| IBPH.6 | Analyze and solve problems involving Electromagnetic Waves |
| IBPH.9 | Analyze and solve problems involving Sight and Wave Phenomena |
| *Energy and Heat* |
| IBPH.6 | Analyze and solve problems involving Thermal Physics |
| IBPH.8 | Analyze and solve problems involving Energy, power and climate change |
| IBPH.12 | Analyze and solve problems involving Work, Energy and Power |
| *Subatomic Physics* |
| IBPH.7 | Analyze and solve problems involving Atomic and nuclear physics |
| IBPH.11 | Analyze and solve problems involving Electricity and Magnetism |
| *Science Practices* |
| IBPH.13 | Design a valid investigation |
| IBPH.14 | Collect and process experimental data |
| IBPH.15 | Write a valid investigative report. |
| *Literacy in Science* |
| 11-12 RST.3 | Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text. |
| 11-12. RST.4 | Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11–12 texts and topics. |
| 11-12 WHST.1 | Write arguments focused on discipline-specific content. |
| 11-12. WHST.8 | Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation. |