



# GIREP-EPEC

Transforming physics learning via Research & Practice  
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## **Analysis of IBDP Physics Curriculum in terms of its Inclusion of Behavioral Profile Characteristics of a Scientific Literate**

*Thursday 3 July 2025 15:50 (20 minutes)*

This study aims to analyze the International Baccalaureate Diploma Programme (IBDP) physics curriculum in terms of its inclusion of the behavioral profile characteristics of a scientific literate. For this purpose, the “behavioral profile domain” part of the Citizenship Scientific Literacy (CSL) framework was used for the content analysis of the written curriculum and textbook. Results found that: IBDP physics is a curriculum with strong emphases on “social identity”, “evolving ability” and “drive to practice science” subheadings. Moreover, it has greater inclusion rates of the items; “ethics and intellectual honesty”, “responsible behavior”, “open-mindedness”, “autonomy”, “attainment value” and “intrinsic value”.

### **Education level**

Age 15-18 (Secondary education)

### **Physics topic**

Full curriculum

### **Research focus**

Competence-based education

### **Research method**

Analytic Physics Education Research (Quantitative research)

### **Organizing preference criteria**

Research focus

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