| Instructional Categories | |
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Project 2061 Instructional Analysis of Biology Textbooks

Biology: Visualizing Life Holf, Rinehart and Winston

No Research Base

No Research Base

Human Approach

■ = Excellent (3); ■ = Good (2.5-2.9); □ = Satisfactory (2-2.4);

BSCS Biology:

An Ecological

N/A

N/A

N/A

 \blacksquare = Fair (1.5-1.9);

Approach Kendall Hunt Heath Biology

D.C. Heath and Company

BSCS Biology: ,

Biology: Principles

& Explorations Holt, Rinehart and Winston

Educational Publishing

South-Western

Context

Biology: A Community

Miller · Levine Prentice Hall

Biology

Dynamics of Life Glencoe, McGraw-Hill

Biology: The

Insights in Biology Kendall Hunt

Modern Biology Holt, Rinehart and Winston

Topic: Cell structure and

function

PROVIDING A SENSE OF PURPOSE

II. TAKING ACCOUNT OF STUDENT IDEAS

Attending to prerequisite knowledge and skills

III. ENGAGING STUDENTS WITH RELEVANT

IV. DEVELOPING AND USING SCIENTIFIC IDEAS

V. PROMOTING STUDENT THINKING ABOUT PHENOMENA, EXPERIENCES, AND

Encouraging students to explain their ideas

Guiding student interpretation and reasoning

Encouraging students to reflect on their own learning

Alerting teacher to commonly held student ideas

Assisting teacher in identifying own students' ideas

Conveying unit purpose

Conveying lesson purpose

Justifying lesson sequence

Addressing commonly held ideas

Providing variety of phenomena Providing vivid experiences

Introducing terms meaningfully

Representing ideas effectively Demonstrating use of knowledge

PHENOMENA

Providing practice

KNOWLEDGE

VI. ASSESSING PROGRESS

Aligning assessment to goals

Using assessment to inform instruction

Testing for understanding