

Sample MC Item

An incandescent light bulb and a fluorescent light tube have been designed to produce the same amount of light. Why does the incandescent bulb get hotter than the fluorescent tube?

- A. The fluorescent tube is less efficient.
- *B. The incandescent bulb is less efficient.
- C. The fluorescent tube uses more electricity.
- D. The incandescent bulb uses less electricity.

FCAT SCIENCE

PLANNING CARDS Grade 8

BENCHMARK SC.B.1.3.4.

Item Type(s)	MC, GR
Benchmark Clarification	The student identifies that some energy is converted to heat in every energy transfer.
Content Limits	Items may address the differences between temperature and thermal energy. Items may require the student to quantify energy transfers.
Stimulus Attributes	None specified.
Response Attributes	Items will describe units in which the answer is to be given.