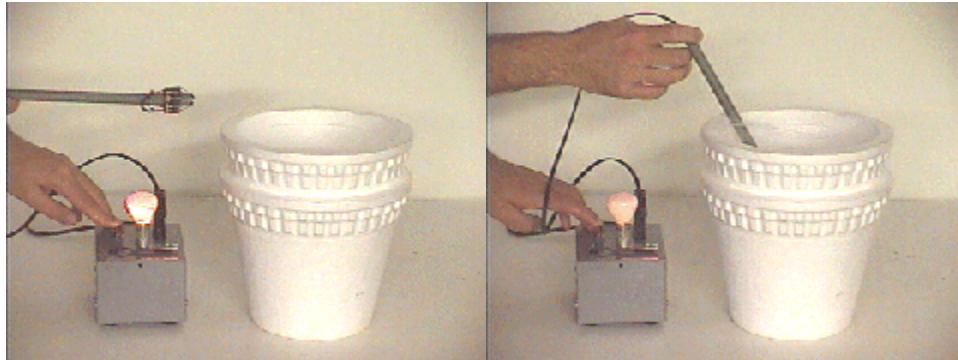


Answer #198

The answer is (b): the light bulb will be less bright, as seen by comparing the two photographs below.



Carbon has a *negative* temperature coefficient of resistance - that is, as a carbon resistor cools down its resistance *increases*. Therefore the resistance of the series circuit becomes *greater* and less current will flow.

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For questions and comments regarding the *Question of the Week* contact [Dr. Richard E. Berg](#) by e-mail or using phone number or regular mail address given on the [Lecture-Demonstration Home Page](#).