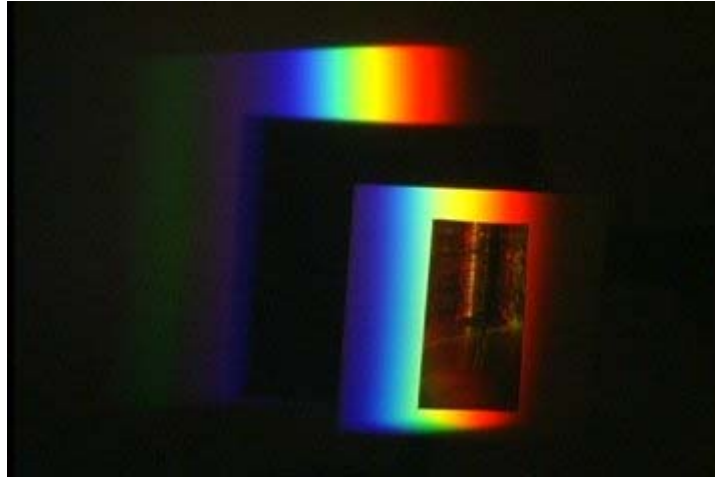


## Answer #248

The answer is (b): the frequency will fall, because there is less heat radiation in the blue region, as can be seen in an mpeg video by clicking your mouse on the photograph below.



Although blue (and green as well as every other color) photons are more energetic than red photons, the frequency will decrease, because the thermopile is sensitive to *infrared* photons. This is a *heat-sensing* device, as demonstrated using [Dan's head](#) in Question #247.

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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](#).