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.

![Rainbow Photograph](Image)

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.