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We've all used thermometers to measure temperature but sometimes we need to measure temperature in places you ( 1 ) \_\_\_ can't put a thermometer for example , inside a rocket engine. One of the best methods for those really hard-to-get-to place is based on laser spectroscopy. Light from a laser point- ( 2 ) \_\_\_ ing at the region of interest is absorbed by molecules and some ( 3 ) \_\_\_ of it are re-emitted back towards the source where it can be ( 4 ) \_\_\_ measured. The re-emitted light is shifted in frequency ( changed in wavelength ) by amounts that depend on the molecule and also the temperature and pressure of the surrounding gas be- ( 5 ) \_\_\_ cause of collisions among the molecules. The single , sharp frequency from the laser is thus smeared out into a whole spectrum of frequency whose shape can be used to determine ( 6 ) \_\_\_ the temperature provided so that the molecular transitions and ( 7 ) \_\_\_ line shapes are known. Because it is the main component of the air , it is convenient to use nitrogen since its molecular ( 8 ) \_\_\_ properties are known from room temperature to temperature of about 1 , 200 degree Celsius from experimental measurements. ( 9 ) Although this is a large range , it is far short of what it is needed ( 10 ) \_\_\_ for , some applications. 100Test 下载频道开通，各类考试题目直接下载。详细请访问 [www.100test.com](http://www.100test.com)