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As shown in figure 3, the three basic components of a laser are: Lasing material (crystal, gas, semiconductor, dye, etc...) Pump source (adds energy to the lasing material , e.g. flash lamp,

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electrical current to cause electron collisions, radiation from a laser, etc.)

## **Laser Fundamentals - Federation of American Scientists**

A laser consists of a gain medium, a mechanism to energize it, and something to provide optical feedback. The gain medium is a material with properties that allow it to amplify light by way of stimulated emission. Light of a specific wavelength that passes through the gain medium is amplified (increases in power).

## **Laser - Wikipedia**

In semiconductor laser theory, the optical gain is produced in a semiconductor material. The choice of material depends on the desired wavelength and properties such as modulation speed. It may be a bulk semiconductor, but more often a quantum heterostructure. Pumping may be electrically or optically. All these structures can be described in a common framework and

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