

Hw

Date 27-7-21
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1) Can a beam of a ~~light~~ white light when passed through a hollow prism give ~~any~~ spectrum? Explain.

Ans) No, when a beam of light passes through a prism there is no spectrum.

Actually, spectrum is produced by the deviation of different colors due to the refraction of light. When ^{white} light passes through the hollow prism, it escapes out as it entered because no refraction takes place.

Q) Why do different components of white light when passed through a hollow prism give spectrum deviate by a different amount when passed through a Prism?

Ans) The different components of white light deviate by a different amount ~~when~~ when passed through a prism because light is made up of seven colours since different colours travel at different speeds they are refracted by different angles.