

What is a Quasar?

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About Quasar:

- A quasar is an extremely **active and luminous type of active galactic nucleus (AGN)**.
- An AGN is nothing more than a supermassive black hole that is active and feeding at the center of a galaxy.
- The brightest **quasars can outshine all of the stars in the galaxies** in which they reside, which makes them visible even at distances of billions of light-years.
- Quasars are thought to **form in regions of the universe where the large-scale density of matter is much higher than average**.
- Most quasars have been **found billions of light-years away**.
- **Quasars emit energies of millions, billions, or even trillions of electron volts. This energy exceeds the total of the light of all the stars within a galaxy.**

Q1) What is a Black Hole?

A black hole is a place in space where gravity pulls so much that even light can not get out. The gravity is so strong because matter has been squeezed into a tiny space. This can happen when a star is dying.

Source: [Hubble discovers unexpected double quasar in early universe](#)

Source: <https://vajiramandravi.com/current-affairs/about-w12-blueprint/>

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