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Crash Course - ASTRONOMY 47 Episode Series Bundle

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Crash Course Astronomy #39: Galaxies – Part 2

Name: _____ Date: _____

You can access the video here → https://youtu.be/_D2g-PGhEg/si-hi0SHzm0eIorIk

- Galaxies can be classified by their shape or by their _____.
- A _____ is a galaxy emitting an enormous amount of energy, especially in radio waves.
- The power source of active galaxies is a _____ located in their core.
- A disk of swirling matter falling into a black hole is called an _____ disk.
- _____ is the type of light with the highest energy, emitted by some active galaxies.
- Matter in an accretion disk heats up due to _____ between particles.
- Active galaxies can emit _____, which are beams of matter and energy launched from near black holes.
- Our galaxy, the Milky Way, has a _____ black hole at its center.
- Galaxies that are not currently feeding matter into their central black holes are considered _____.
- When galaxies _____, gas can fall into the center and activate black holes.
- The Milky Way is part of a small group of galaxies known as the _____.
- The Andromeda Galaxy is currently moving _____ us, indicating a future collision.
- Groups of galaxies like the Local Group belong to larger structures called _____.
- The Virgo Supercluster is part of an even larger structure called the _____ Supercluster.
- Deep field images from the Hubble Space Telescope revealed there are about _____ galaxies in the observable Universe.

Crash Course Astronomy #39: Galaxies – Part 2 KEY

- Galaxies can be classified by their shape or by their **behavior**.
- A **quasar** is a galaxy emitting an enormous amount of energy, especially in radio waves.
- The power source of active galaxies is a **supermassive black hole** located in their core.
- A disk of swirling matter falling into a black hole is called an **accretion** disk.
- Gamma rays** is the type of light with the highest energy, emitted by some active galaxies.
- Matter in an accretion disk heats up due to **friction** between particles.
- Active galaxies can emit **jets**, which are beams of matter and energy launched from near black holes.
- Our galaxy, the Milky Way, has a **supermassive** black hole at its center.
- Galaxies that are not currently feeding matter into their central black holes are considered **quiescent**.
- When galaxies **collide**, gas can fall into the center and activate black holes.
- The Milky Way is part of a small group of galaxies known as the **Local Group**.
- The Andromeda Galaxy is currently moving **toward** us, indicating a future collision.
- Groups of galaxies like the Local Group belong to larger structures called **clusters**.
- The Virgo Supercluster is part of an even larger structure called the **Laniakea** Supercluster.
- Deep field images from the Hubble Space Telescope revealed there are about **100 billion** galaxies in the observable Universe.

15 Questions

Answer Key Included

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