GRADE 8: ACTIVITY 3:The Milky Way Galaxy:

Use the picture below to answer the following questions:



1. Describe the shape of the Milky Way:

   Circular Square Spiral Spherical

2. What is the Name given to the Center of the Milky Way?

   Stars galaxies planets globular clusters

3. What is the Milky Way made up of?

   Groups of planets Groups of Moons Groups of Stars

4. What is the Unit used to measure distances in the Milky Way?

   Kilometers meters centimeters Astronomical Units

5. The Milky Way is approximately 100 000 light years across. How long does light take to travel from one side of the Milky Way to the other side?

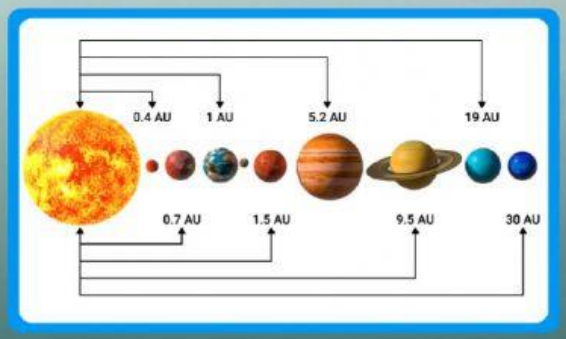
   1000 years 100 000 years 1 year 3 000 000 years

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Distance in the Solar System

Review: To discuss distance in the Solar System, we use **astronomical units (AU)**.
1 AU is the distance between the Earth and the Sun, which is 149,600,000 km.





6. In which Unit do we measure distances between planets in the Solar system?

light months light weeks light years light days

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7. Use the above diagram showing the planets and indicating the distances between planets and the Sun to answer the following questions:

A: Rearrange the planets from closest distance to the furthest distance from the Sun.

Jupiter	Neptune	Mars	Saturn
Venus	Uranus	Earth	Mercury

Sun

1:
2:
3:
4:
5:
6:
7:
8:

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8. Use the above Table to write down the correct distances between the Sun and the Planets:

A: Jupiter

B: Earth

C: Uranus

D: Mars

E: Venus

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9. What is the Name of the above image?



Andromeda Earth Extreme Deep Field Milky Way

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10. What does each light in the picture represent?

The Moon The Earth A different galaxy A different planet

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