

Stages in Stellar Evolution

- Helium core, no thermonuclear reactions
- Helium-fusing core
- Hydrogen-fusing core
- Hydrogen-fusing shell
- Main-sequence star
- Outer layers: no thermonuclear reactions
- Red-giant star
- Red-giant star after helium fusion begins

Drag the circles adjacent to the terms above to their appropriate location on the diagram

Variable Stars on the H-R Diagram

- Cepheid variables
- Instability strip
- Long-period variables
- Main sequence
- RR Lyrae variables

Drag the circles adjacent to the terms above to their appropriate location on the diagram

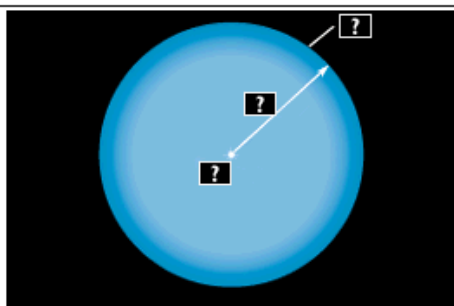
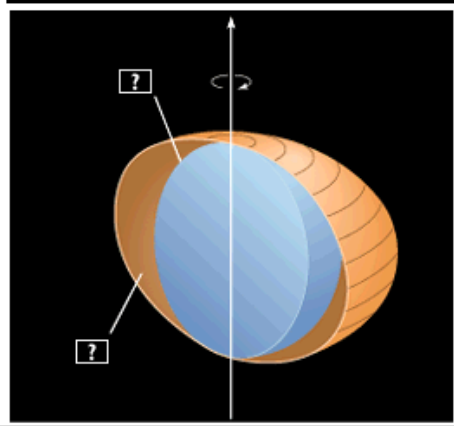
Types of Close Binary Systems

<p>Roche lobe</p> <p>Inner Lagrangian point</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p>	<ul style="list-style-type: none"> <input type="radio"/> Contact <input type="radio"/> Detached <input type="radio"/> Overcontact <input type="radio"/> Semi-detached <p>Drag the circles adjacent to the terms above to their appropriate location on the diagram</p>
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Pathways of Stellar Evolution

<p>Main sequence mass (M_{\odot})</p> <p>Stellar corpse mass (M_{\odot})</p> <p>Time →</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p> <p>?</p>	<ul style="list-style-type: none"> <input type="radio"/> AGB stars <input type="radio"/> Black holes <input type="radio"/> Giants <input type="radio"/> Helium flash <input type="radio"/> Main sequence stars <input type="radio"/> Neutron stars <input type="radio"/> Planetary nebulae <input type="radio"/> Supergiants <input type="radio"/> Supernovas <input type="radio"/> White dwarfs <p>Drag the circles adjacent to the terms above to their appropriate location on the diagram</p>
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Black Hole Structure

?		<ul style="list-style-type: none"><input checked="" type="checkbox"/> Ergoregion<input checked="" type="checkbox"/> Event horizon<input checked="" type="checkbox"/> Nonrotating black hole<input checked="" type="checkbox"/> Rotating black hole<input checked="" type="checkbox"/> Schwarzschild radius<input checked="" type="checkbox"/> Singularity
?		<p>Drag the circles adjacent to the terms above to their appropriate location on the diagram</p>