

Algorithms	
<ul style="list-style-type: none"><li>-Convert apoapsis and periapsis distance to astronomical units</li><li>-Calculate the semi-major axis of a planet's ellipse</li><li>-Calculate the eccentricity of a Planet's ellipse</li><li>-Calculate the period of a planet</li><li>-Calculate the average velocity of a planet</li><li>-Calculate the velocity of a planet at a certain point</li><li>-Calculate the semi-minor axis of a planet</li><li>-Create the path transition that the planet will follow</li><li>-Calculate the center X coordinate for an ellipse given a BorderPane</li><li>-Calculate the center Y coordinate for an ellipse given a BorderPane</li><li>-Create a sphere based off of the radius of a planet</li><li>-Create an ellipse path of a planet</li><li>-Conversion for coordinate of semi-major axis</li><li>-Conversion for apoapsis distance in coordinates</li></ul>	<ul style="list-style-type: none"><li>• Planet</li></ul>
<div><div>Edit card #1</div><div>X</div><div>I</div></div>	
Constants	
<ul style="list-style-type: none"><li>• Hold the following constants for each planet in our solar system:</li><li>• -Mass</li><li>• -Planet radius</li><li>• -Periapsis distance from sun</li><li>• -Apoapsis distance from sun</li><li>• -Inclination</li><li>• -Wrapper image for planet</li><li>• -The rate (-1 or 1) to determine how the planet traverses its orbit</li></ul>	
<div><div>Edit card #2</div><div>X</div><div>I</div></div>	