

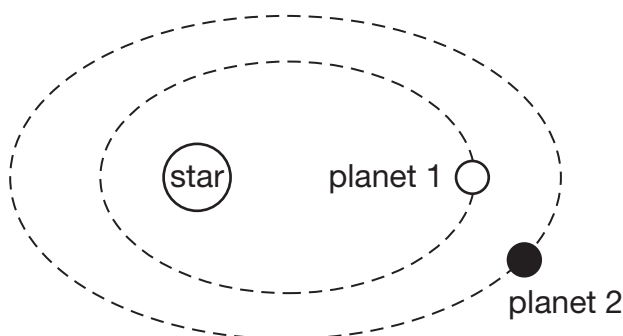
SCIENCE

FIRST OPEN-ENDED ITEM

D.3.1.2

This is a short open-ended (SOE) question. It is worth two points.

Use the diagram and table below to answer question 10.



Mass Comparison

Object	Mass (kg)
planet 1	6.0×10^{24}
planet 2	6.5×10^{23}
star	2.0×10^{30}

10. Answer parts A and B below about the movements of the objects in this star system.

Part A: How is the movement of planet 1 in this star system influenced by the other two objects in this star system?

Star: _____

Planet 2: _____

Part B: Which part of this star system has the greatest influence on movement of objects within the star system? Explain your answer.

