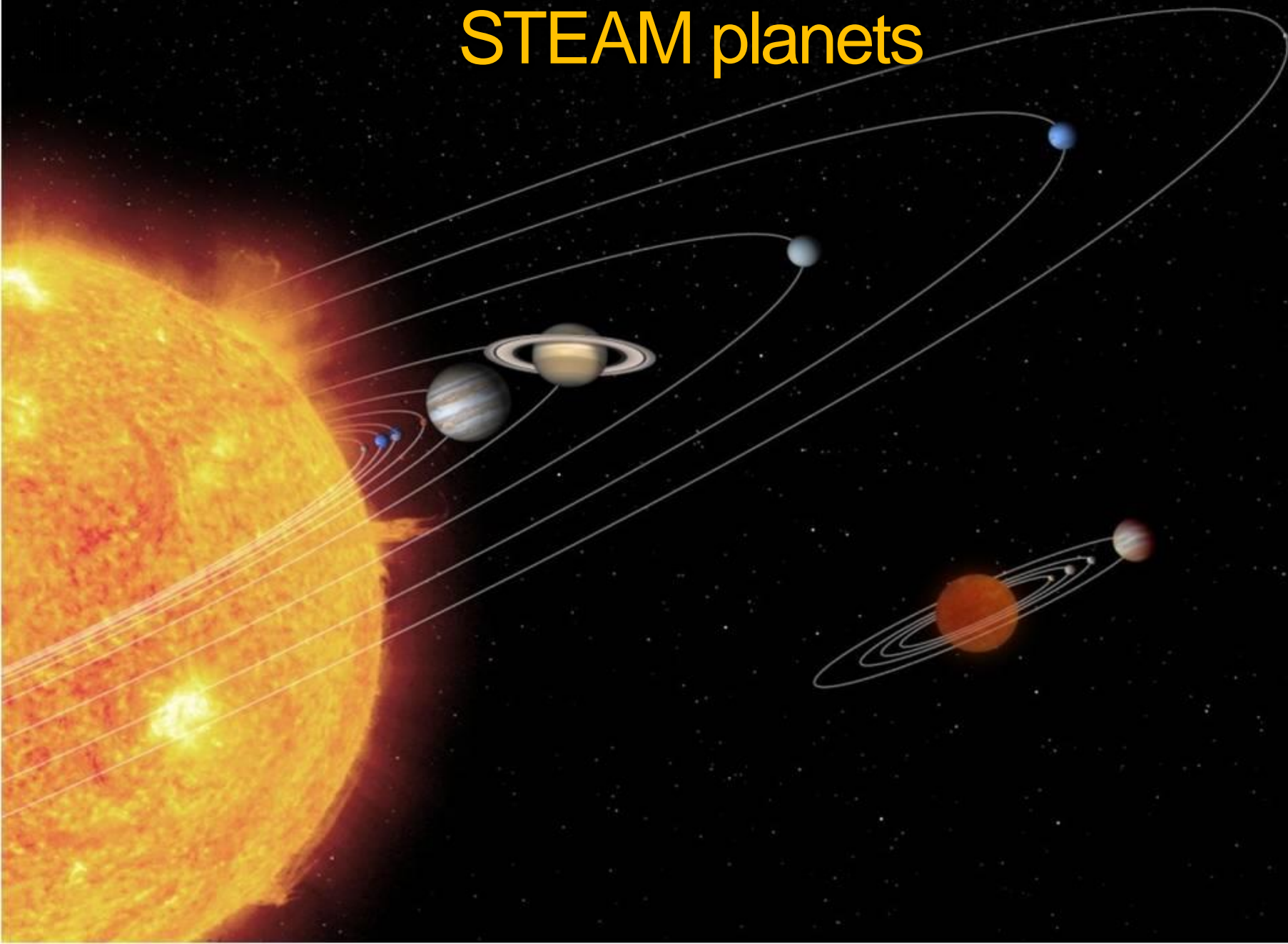
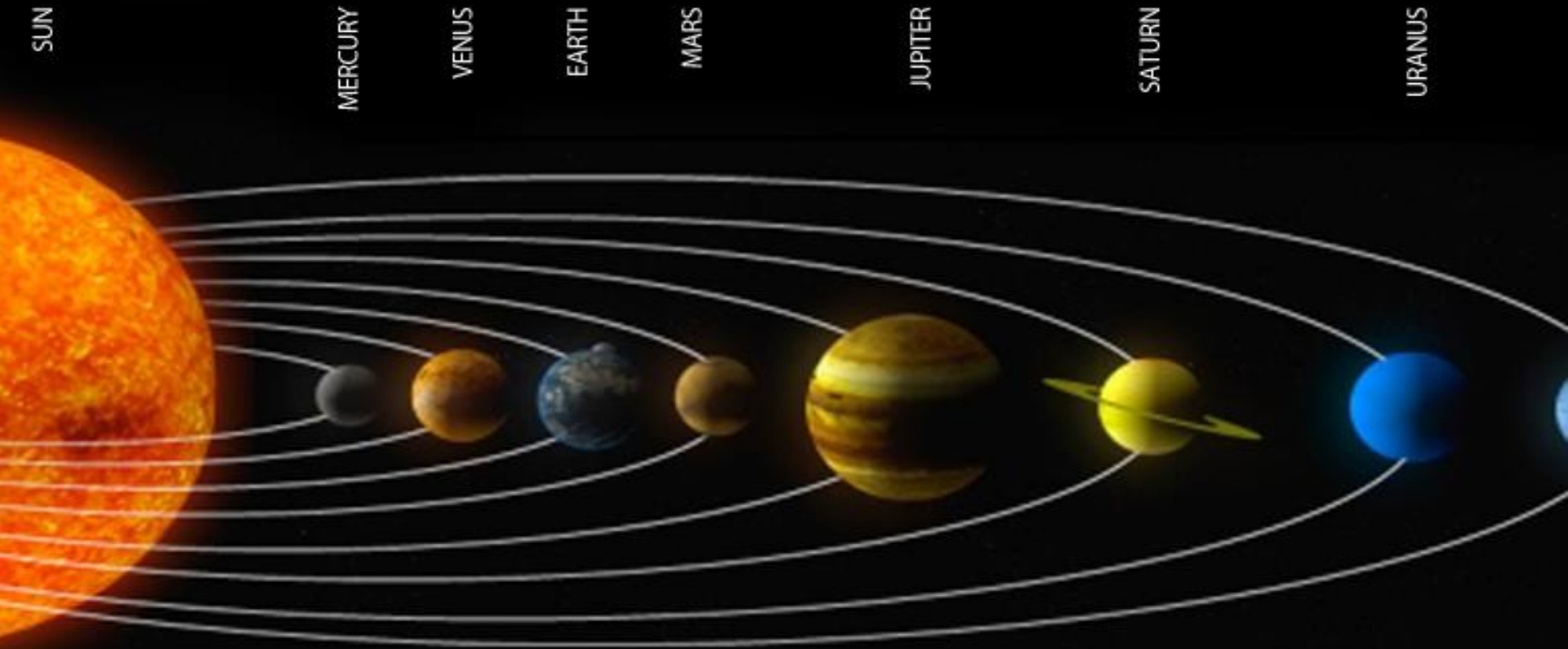


STEAM planets



FACT:

Objects weigh more on Earth than they would weigh on Mars. Weight is a measure of the force of gravity and gravity is the attraction between two objects with mass. Because the Earth has more mass than Mars, the force of gravity is larger and objects weigh more.



Directions:

- Fill out the first chart- known a good fraction or mixed number could be used to estimate change from Earth weight to Mars, the moon, Jupiter, or Saturn weight.

	Weight in Pounds	Fraction of Earth Weight
Earth	100	
Mars	35	
Moon	16	
Jupiter	235	
Saturn	90	

- A person's weight on Mars is a fraction of his or her weight on Earth. You can think of the fraction as 35 out of 100 and it as $35/100$. The fraction could be simplified to $7/20$.
- After completing the first chart, find the weights in the second chart.
 - Example: If a man weighed 180 pounds on Earth, he would weigh about $7/20 \times 180 = 63$ pounds on Mars

	Earth	Mars	Moon	Jupiter	Saturn
Mountain Bike	40				
Woman	120				
Car	3,000				
Elephant	11,000				

Don't forget the STEAM

S
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M