Name:			Period:	Date:
		Orbital and Escape	•	
D'	E le . Cile	Astro	•	.9.1191.1.
			ow. Calculate BOTH the ork	
-	•	· ·	ely. Be sure to show the fo	
			ess of Earth is 5.98x10 ²⁴ kg,	
			be significant is the radius!	
	•	us conversions in the	table and then use that info	ormation to help you
with the for	rmula.			
	Satellite Mass		Distance from Earth's	Distance from Earth's
Satellite	(kg)	Earth's Mass (kg)	Center (km)	Center (m)
1	50	5.98x10 ²⁴	7,000	Genter (m)
2	100	5.98x10 ²⁴	8,000	
3	200	5.98x10 ²⁴	10,000	
4	200	5.98x10 ²⁴	14,000	
5	400	5.98x10 ²⁴	17,000	
6	400	5.98x10 ²⁴	21,000	
7	800	5.98x10 ²⁴	24,000	
Satellite 1 Orbital Velocity Formula:			Escape Velocity Formula:	
Variables:			Variables:	
ALL Work:			ALL Wo	ork:
Final Answe	er:		Final A	nswer:

Satellite 2

Orbital Velocity
Formula:

Escape Velocity
Formula:

Variables:	Variables:
ALL Work:	ALL Work:
Final Answer:	Final Answer:
Satellite 3 Orbital Velocity Formula:	Escape Velocity Formula:
Variables:	Variables:
ALL Work:	ALL Work:
 Final Answer:	Final Answer:
Satellite 4 Orbital Velocity Formula:	Escape Velocity Formula:
Variables:	Variables:

ALL Work:	ALL Work:
Final Answer:	Final Answer:
Satellite 5 Orbital Velocity Formula:	Escape Velocity Formula:
Variables:	Variables:
ALL Work:	ALL Work:
Final Answer:	Final Answer:
Satellite 6 Orbital Velocity Formula:	Escape Velocity Formula:
Variables:	Variables:
ALL Work:	ALL Work:

Final Answer:	Final Answer:
Satellite 7 Orbital Velocity Formula:	Escape Velocity Formula:
Variables:	Variables:
ALL Work:	ALL Work:
Final Answer:	Final Answer: