

## **Asteroid Mining - Rubric**

	Level 4	Level 3	Level 2	Level 1
Knowledge and Understanding	Demonstrates thorough understanding of physical and orbital characteristics of asteroids and/or comets and their locations in the solar system.  Demonstrates thorough understanding of new technologies used or being planned for solar system investigation.	Demonstrates considerable understanding of physical and orbital characteristics of asteroids and/or comets and their locations in the solar system. Demonstrates considerable understanding of new technologies used or being planned for solar system investigation	Demonstrates some understanding of physical and orbital characteristics of asteroids and/or comets and their locations in the solar system.  Demonstrates some understanding of new technologies used or being planned for solar system investigation	Demonstrates limited understanding of physical and orbital characteristics of asteroids and/or comets and their locations in the solar system. Demonstrates limited understanding of new technologies used or being planned for solar system investigation
Application	Identifies target objects with a high degree of specificity towards established criteria. Creates a detailed plan for harvesting resources.	Identifies target objects with a good degree of specificity towards established criteria. Creates a plan for harvesting resources with some details.	Identifies target objects with some specificity with regards to established criteria. Creates a plan for harvesting resources with few details.	Identifies target objects with some criteria addressed. Creates a plan for harvesting resources with very few details.

	Level 4	Level 3	Level 2	Level 1
	Identifies criteria for	Identifies criteria for	Identifies criteria for	Identifies one or two criteria for
Thinking and	targets with great detail	targets with detail and	targets with some detail	targets. Describes few
Investigation	and insight.	insight.	and insight.	connections between new
	Describes connections	Describes connections	Describes some	technologies and the
	between new	between new	connections between	exploitation of space resources.
	technologies and the	technologies and the	new technologies and	Analyses financial challenges
	exploitation of space	exploitation of space	the exploitation of	with little insight. Political
	resources in great detail.	resources with some	space resources.	considerations related to, and
	Analyses financial	detail.	Analyses financial	economic and environmental
	challenges with a good	Analyses financial	challenges with some	consequences of, asteroid or
	degree of insight.	challenges with some	insight.	comet mining are somewhat
	Political considerations	insight.	Political considerations	addressed.
	related to, and economic	Political considerations	related to, and	
	and environmental	related to, and economic	economic and	
	consequences of, asteroid	and environmental	environmental	
	or comet mining are	consequences of, asteroid		
	addressed insightfully	or comet mining are	asteroid or comet	
	and in great detail.	addressed in some detail.	mining are addressed in	
			a general way.	
Communication	Presentation is	Presentation is good and	Presentation is good.	Presentation is made. Most
	compelling and well	well researched.	Presentation is	sections of the pitch are
	researched. Presentation	Presentation is visually	somewhat visually	present.
	is visually appealing. All	appealing. All sections of	appealing. Most	Significant errors in spelling,
	sections of the pitch are	the pitch are present.	sections of the pitch are	punctuation or grammar
	present.	Minor errors in spelling,	present.	presented in report.
	No spelling, punctuation	punctuation or grammar	Somewhat considerable	
	or grammar errors or	presented in report.	errors in spelling,	
	very few mistakes		punctuation or grammar	
	presented in report.		presented in report.	