Worksheet 1: "Exploring Hercules ROV - Fun Facts"

Objective: Investigate the features and capabilities of the Hercules robot, a Remotely Operated Vehicle (ROV).

Fact Exploration:

Watch the "X-STEM Robots" vide Fill in the blanks with the missing a. Hercules has a predator arm the	information about t	the Hercules robot	
b. It can rotate in	directions.		
c. Hercules can carry upwards of		lbs worth of samp	oles to and from the
ocean floor.			
d. The robot is remotely controlle m/s.	d by a team from a	control room, and	it can move at speeds of
e. Hercules has lights, camera, a	nd action to share o	discoveries with the	e world, featuring LEDs
all over its frame to capture visua	ls of	activities.	
Visual Representation:			
Create a visual representation (d		infographic) of the	e Hercules ROV,
highlighting its key features and o	•		
Include captions or labels to expla	ain each of the thre	e tun tacts.	

Worksheet 2: "Role of Robots in Our Lives"

Objective: Understand the purpose and significance of designing robots to perform tasks that are challenging for humans.

Reflection and Writing:

Reflect on the information from the "X-STEM Robots" video regarding the Hercules ROV. Write a short essay or reflection discussing how robots like Hercules make our lives easier and contribute to tasks that are difficult for humans.

Worksheet 3: "Real World Robots"

Real-World Application:

Identify and research one real-world example where a robot is used to perform a task that is challenging or risky for humans.

Present your findings through a short paragraph and, if possible, include images or illustrations.