
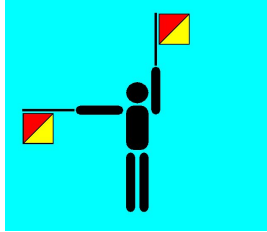

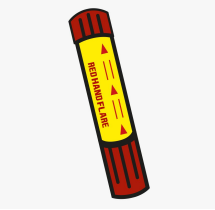

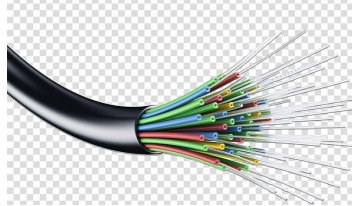
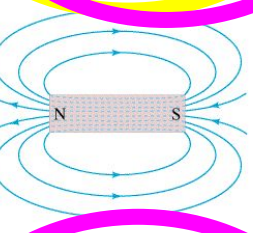



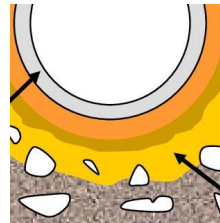
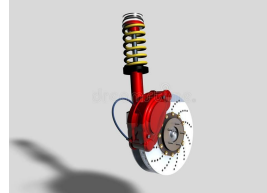


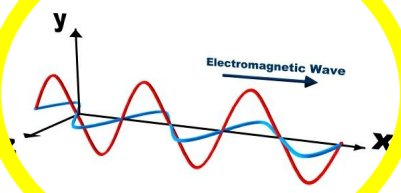



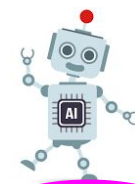




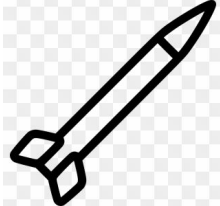
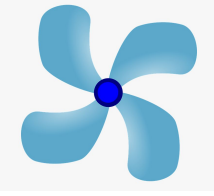
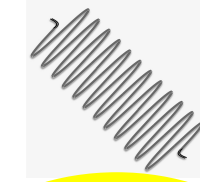


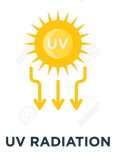

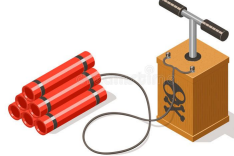
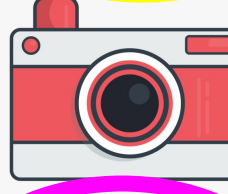



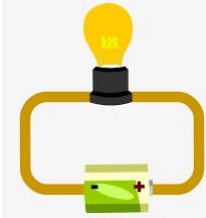

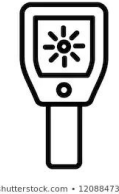
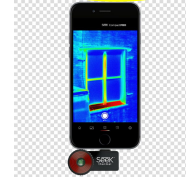


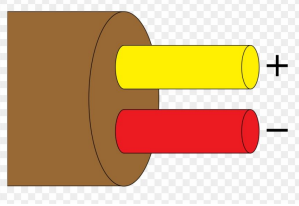

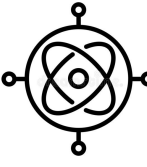


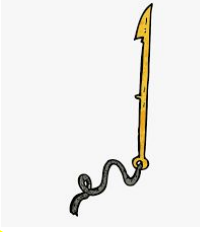






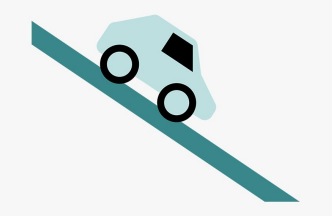





<div>Solutions</div> <div>Sub Functions</div>	1	2	3	4	5	6	7	8
Communicate with Earth								
Protect Payload from Impact								
Protect Payload from Electrical Charges								
Avoid Collisions								
Sever Mechanical / Electrical Connections								
Detect Safe Landing Site (Texture & Gradient)								
Detect Surface Temperature								
Measure Position and Velocity								
Landing Equipment								
Releasing Payload								

Concept 1: RF communication, magnets to protect the payload and it would give off electromagnetic waves to protect from electrical charges. Avoid collisions using AI, and sever connections using springs, which is also how it would release the payload. Use a camera, heat sensor, and gyroscope on board to detect surface of asteroid. Shoot out harpoons to grab onto landing surface.

Concept 2: RF communication, have a slurry/viscous shield while payload is in faraday cage. Use lasers to avoid collisions, and sever connections using a snap shackle. Have IR sensor, heat camera, and motion detector on board to detect surface properties. Use magnet to pull onto (or near) asteroid surface, and lower payload by a crane.