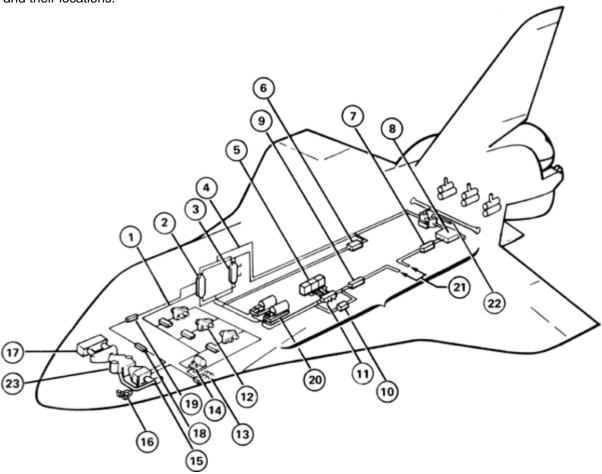




Directions:

Label the following diagram to become more familiar with 23 ECLSS individual components on the orbiter and their locations.



- 1. Water coolant loops
- 2. Interchanger heat exchanger
- 3. Payload heat exchanger
- 4. Freon-21 coolant loops
- 5. Fuel cell power plants
- 6. Aft avionics bay and cold plates
- 7. Ground support equipment heat exchanger
- 8. Ammonia boiler
- 9. Hydraulic heat exchangers to radiators
- 10. Midbody cold plates
- 11. Fuel cell heat exchanger to Freon-21 coolant loops
- 12. Avionics bays 1, 2, and 3A heat exchangers, fans, and cold plates

- 13. Inertial measurement units heat exchanger and fans
- 14. Water pumps
- 15. Cabin air-to-water heat exchanger
- 16. Humidity water separators
- 17. Cabin fans and check valve assemblies
- 18. Potable water chiller heat exchanger
- 19. Liquid-cooled garment heat exchanger
- 20. Freon-21 coolant pumps
- 21. To radiators
- 22. Flash evaporators
- 23. Carbon dioxide absorber





Directions:

Label the following diagram to become more familiar with the 4 ECLSS subsystems and their functions.

- 1. Atmospheric Revitalization and Pressure Control System (ARPCS)
- 2. Active Thermal Control System
- 3. Food, Water, and Waste Subsystem

