

UNIT IV: Waste Management System

Lesson	Focus	Activities/Materials Provided	Content Area/Grade Level
What Measures Ensure Safe Transportation of High-Level Nuclear Waste?	Gives students an in-depth look at the transportation of high-level nuclear waste.	Transparencies (5) Reading Lesson Activity Sheet Videotape (26 minutes) Enrichments (3) <ul style="list-style-type: none">• Map Activity• Experiment	Social Studies (Grades 9-12)
What Will a Repository Be Like?	Familiarize students with the natural and engineered barriers that will permanently isolate spent nuclear fuel produced by commercial nuclear powerplants and high-level radioactive waste generated by the Nation's defense activities. Acquaints students with the basic conceptual design, construction, and operation plans for the Nation's first geologic repository.	Reading Lesson Activity Sheet Transparencies (2) Videotapes (2) Enrichments <ul style="list-style-type: none">• Reading Lesson (3)• Activity Sheets (9)• Experiments (7)• Map Activities	Social Studies & Science (Grades 9-12)

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<u>The Role of the Multi-Purpose Canister in the Waste Management System</u> <u>(three 50-minute class periods)</u>	<p><u>Examines the effectiveness of the multi-purpose canister for safely transporting, storing, and disposing of spent fuel from nuclear powerplants.</u></p> <p><u>Involves students in the public participation process as stakeholders in an issue concerning the transportation of nuclear waste.</u></p>	<p><u>Reading Lesson Activity Sheets</u></p> <p><u>Videotape</u></p> <p><u>Blank Newspaper Master/Computer Diskette Template</u></p>	<p><u>General Science & Social Studies (Grades 8-12)</u></p>