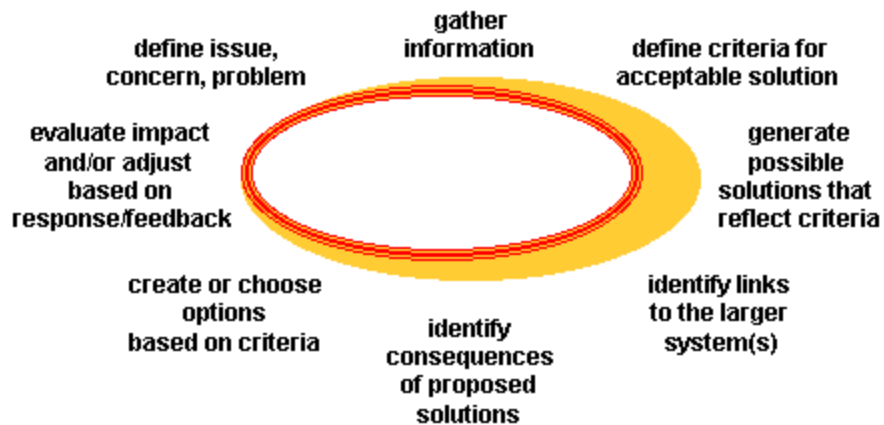


Planning Intermodal Transportation Between Two Points

LEARNING AREA: Economics & Business
EDUCATIONAL LEVEL: High School
CONTENT STANDARD: Business Management

STANDARD:
Analyzing business expenses and organizational and environmental costs.

LARGE PROCESSES/CONCEPTS



ASSESSMENT TASK:

DESCRIPTION: Determine and plan transportation routes/methods for a variety of cargo's. Calculate the estimated cost of transporting the cargo. Plan the modes of transportation based on cost and time enroute. Evaluate the impact each mode has on social-cultural values, political, environmental, technical, and economical factors.

PRODUCTS/EVIDENCE OF LEARNING:

- Analyze cargo
- Determine transportation options
- Determine transportation costs
- Determine transportation time frame options
- Analyze transportation options
- Selection of intermodal methods

ASSESSMENT TASK: Planning Intermodal Transportation Between Two Points

OVERVIEW: The student will be given a list of cargo items which need to be transported. A travel planner will be given to the student (see figure1). The cargo type, departure point, and delivery point will be given in the travel planner Part A. The student will analyze the cargo to determine if it needs to be moved quickly (time sensitive) or if moving the cargo with lower transportation cost is more important. Transportation options will be investigated by the student. Part B will be completed when the student has selected a type of transportation method. Information in this section will assist in determining whether the transportation method selected is feasible. Part C will then be filled in to determine total cost, time and impact of moving the given cargo. A typical travel planner will consist of one Part A, several Part B's (one for each mode of travel) and a final compilation or total in Part C.

Some examples of problems in intermodal transportation could be to move 100 ton of coal from Minot, ND to Cleveland, OH, 2 kidneys from Fargo, ND to Rochester, MN, 20 Toyota cars from Los Angeles, CA to Winona, MN or 1200 12" x 8' walnut logs from Rushford, MN to Milwaukee, WI.

FIGURE 1: Intermodal Travel Planner

Part A (To be completed first)

CARGO:

Total Weight(if bulk)	_____
Departure point	_____
Delivery point	_____
Estimate total distance	_____
Intermediate stops(opt.)	_____
Time sensitive	_____
Special attention	_____
Factor weather	_____
Transportation options:	_____

Part B (To be filled in when mode type has been selected)

Departure point(this section)	_____
Estimated departure date/time	_____ / _____
Delivery point(this section)	_____
Estimated delivery date/time	_____ / _____
Estimated total miles(this section)	_____
Estimated cost per mile(this section)	_____
Estimated total cost(this section)	_____

ASSESSMENT TASK: Planning Intermodal Transportation Between Two Points

Why was this method of travel selected for this section?

What is the disadvantage of this mode of travel?

What is the impact of this travel mode on the following:

1. Social-cultural
2. Political
3. Environmental
4. Technical
5. Economical

Part C (to be filled in with totals from all part B's for this cargo)

How many intermodal types were used?

What was the total time necessary for transporting the cargo?

Is this a reasonable time limit for transporting the cargo?

What was the total cost of transportation for this cargo?

Is this cost of transportation reasonable for this cargo?

CHECK LIST:

STUDENT	TEACHER	
_____	_____	PART A
_____	_____	PART B
_____	_____	PART C