

Constructing a Performance Task Scenario Using GRASPS

Mathematics

Goal:

- **The goal (within the scenario) is to minimize costs** for shipping bulk quantities of M&M'S.

Role:

- **You are an engineer** in the packaging department of the M&M'S candy company.

Audience:

- **The target audience is nonengineer company executives.**

Situation:

- **You need to convince penny-pinching company officers** that your container design will provide cost-effective use of the given materials, maximize shipping volume of bulk quantities of M&M'S, and be safe to transport.

Product Performance and Purpose:

- **You need to design a shipping container** from given materials for the safe and cost-effective shipping of the M&M'S. Then you will prepare a written proposal in which you include a diagram and show mathematically how your container design provides effective use of the given materials and maximizes the shipping volume of the M&M'S.

Standards and Criteria for Success:

- **Your container proposal should . . .**
 - Provide cost-effective use of the given materials.
 - Maximize shipping volume of bulk quantities of M&M'S.
 - Be safe to transport.
- **Your models must make the mathematical case.**

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Social Studies

Goal:

- **Your goal is to help a group of foreign visitors understand the key historic, geographic, and economic features of our region.**

Role:

- **You are an intern at the Regional Office of Tourism.**

Audience:

- **The audience is a group of nine foreign visitors (who speak English).**

Situation:

- **You have been asked to develop a plan, including a budget, for a four-day tour of the region. Plan your tour so that the visitors are shown sites that best illustrate the key historic, geographic, and economic features of our region.**

Product Performance and Purpose:

- **You need to prepare a written tour itinerary and a budget for the trip. You should include an explanation of why each site was selected and how it will help the visitors understand the key historic, geographic, and economic features of our region. Include a map tracing the route for the tour.**

Standards and Criteria for Success:

- **Your proposed tour plan (including itinerary, budget and route map) needs to include**
 - The key historic, geographic, and economic features of the region.
 - A clear rationale for the selected sites.
 - Accurate and complete budget figures.

Constructing a Performance Task Scenario Using GRASPS

Consider the following set of stem statements as you construct a scenario for a performance task. Refer to the previous idea sheets to help you brainstorm possible scenarios. (Note: These are idea starters. Resist the urge to fill in all of the blanks.)

Goal:

- Your task is _____
- The goal is to _____
- The problem or challenge is _____
- The obstacles to overcome are _____

Role:

- You are _____
- You have been asked to _____
- Your job is _____

Audience:

- Your clients are _____
- The target audience is _____
- You need to convince _____

Situation:

- The context you find yourself in is _____
- The challenge involves dealing with _____

Product, Performance, and Purpose:

- You will create a _____
in order to _____
- You need to develop _____
so that _____

Standards and Criteria for Success:

- Your performance needs to _____
- Your work will be judged by _____
- Your product must meet the following standards: _____
- A successful result will _____

Possible Student Roles and Audiences

KEY: ○ = ROLES and □ = AUDIENCES

- | | | |
|---|---|--|
| <input type="checkbox"/> <input type="checkbox"/> actor | <input type="checkbox"/> <input type="checkbox"/> family member | <input type="checkbox"/> <input type="checkbox"/> photographer |
| <input type="checkbox"/> <input type="checkbox"/> advertiser | <input type="checkbox"/> <input type="checkbox"/> farmer | <input type="checkbox"/> <input type="checkbox"/> pilot |
| <input type="checkbox"/> <input type="checkbox"/> artist/illustrator | <input type="checkbox"/> <input type="checkbox"/> filmmaker | <input type="checkbox"/> <input type="checkbox"/> playwright |
| <input type="checkbox"/> <input type="checkbox"/> author | <input type="checkbox"/> <input type="checkbox"/> firefighter | <input type="checkbox"/> <input type="checkbox"/> poet |
| <input type="checkbox"/> <input type="checkbox"/> biographer | <input type="checkbox"/> <input type="checkbox"/> forest ranger | <input type="checkbox"/> <input type="checkbox"/> police officer |
| <input type="checkbox"/> <input type="checkbox"/> board member | <input type="checkbox"/> <input type="checkbox"/> friend | <input type="checkbox"/> <input type="checkbox"/> pollster |
| <input type="checkbox"/> <input type="checkbox"/> boss | <input type="checkbox"/> <input type="checkbox"/> geologist | <input type="checkbox"/> <input type="checkbox"/> radio listener |
| <input type="checkbox"/> <input type="checkbox"/> Boy/Girl Scout | <input type="checkbox"/> <input type="checkbox"/> government official | <input type="checkbox"/> <input type="checkbox"/> reader |
| <input type="checkbox"/> <input type="checkbox"/> businessperson | <input type="checkbox"/> <input type="checkbox"/> historian | <input type="checkbox"/> <input type="checkbox"/> reporter |
| <input type="checkbox"/> <input type="checkbox"/> candidate | <input type="checkbox"/> <input type="checkbox"/> historical figure | <input type="checkbox"/> <input type="checkbox"/> researcher |
| <input type="checkbox"/> <input type="checkbox"/> carpenter | <input type="checkbox"/> <input type="checkbox"/> illustrator | <input type="checkbox"/> <input type="checkbox"/> reviewer |
| <input type="checkbox"/> <input type="checkbox"/> cartoon character | <input type="checkbox"/> <input type="checkbox"/> intern | <input type="checkbox"/> <input type="checkbox"/> sailor |
| <input type="checkbox"/> <input type="checkbox"/> cartoonist | <input type="checkbox"/> <input type="checkbox"/> interviewer | <input type="checkbox"/> <input type="checkbox"/> school official |
| <input type="checkbox"/> <input type="checkbox"/> caterer | <input type="checkbox"/> <input type="checkbox"/> inventor | <input type="checkbox"/> <input type="checkbox"/> scientist |
| <input type="checkbox"/> <input type="checkbox"/> celebrity | <input type="checkbox"/> <input type="checkbox"/> judge | <input type="checkbox"/> <input type="checkbox"/> ship's captain |
| <input type="checkbox"/> <input type="checkbox"/> CEO | <input type="checkbox"/> <input type="checkbox"/> jury | <input type="checkbox"/> <input type="checkbox"/> social scientist |
| <input type="checkbox"/> <input type="checkbox"/> chairperson | <input type="checkbox"/> <input type="checkbox"/> lawyer | <input type="checkbox"/> <input type="checkbox"/> social worker |
| <input type="checkbox"/> <input type="checkbox"/> chef | <input type="checkbox"/> <input type="checkbox"/> library patron | <input type="checkbox"/> <input type="checkbox"/> statistician |
| <input type="checkbox"/> <input type="checkbox"/> choreographer | <input type="checkbox"/> <input type="checkbox"/> literary critic | <input type="checkbox"/> <input type="checkbox"/> storyteller |
| <input type="checkbox"/> <input type="checkbox"/> coach | <input type="checkbox"/> <input type="checkbox"/> lobbyist | <input type="checkbox"/> <input type="checkbox"/> student |
| <input type="checkbox"/> <input type="checkbox"/> community member | <input type="checkbox"/> <input type="checkbox"/> meteorologist | <input type="checkbox"/> <input type="checkbox"/> taxi driver |
| <input type="checkbox"/> <input type="checkbox"/> composer | <input type="checkbox"/> <input type="checkbox"/> museum director/
curator | <input type="checkbox"/> <input type="checkbox"/> teacher |
| <input type="checkbox"/> <input type="checkbox"/> client/customer | <input type="checkbox"/> <input type="checkbox"/> museum goer | <input type="checkbox"/> <input type="checkbox"/> tour guide |
| <input type="checkbox"/> <input type="checkbox"/> construction worker | <input type="checkbox"/> <input type="checkbox"/> neighbor | <input type="checkbox"/> <input type="checkbox"/> trainer |
| <input type="checkbox"/> <input type="checkbox"/> dancer | <input type="checkbox"/> <input type="checkbox"/> newscaster | <input type="checkbox"/> <input type="checkbox"/> travel agent |
| <input type="checkbox"/> <input type="checkbox"/> designer | <input type="checkbox"/> <input type="checkbox"/> novelist | <input type="checkbox"/> <input type="checkbox"/> traveler |
| <input type="checkbox"/> <input type="checkbox"/> detective | <input type="checkbox"/> <input type="checkbox"/> nutritionist | <input type="checkbox"/> <input type="checkbox"/> tutor |
| <input type="checkbox"/> <input type="checkbox"/> editor | <input type="checkbox"/> <input type="checkbox"/> observer | <input type="checkbox"/> <input type="checkbox"/> t.v. viewer |
| <input type="checkbox"/> <input type="checkbox"/> elected official | <input type="checkbox"/> <input type="checkbox"/> panelist | <input type="checkbox"/> <input type="checkbox"/> t.v. or movie
character |
| <input type="checkbox"/> <input type="checkbox"/> embassy staff | <input type="checkbox"/> <input type="checkbox"/> parent | <input type="checkbox"/> <input type="checkbox"/> visitor |
| <input type="checkbox"/> <input type="checkbox"/> engineer | <input type="checkbox"/> <input type="checkbox"/> park ranger | <input type="checkbox"/> <input type="checkbox"/> Web site designer |
| <input type="checkbox"/> <input type="checkbox"/> expert (in _____) | <input type="checkbox"/> <input type="checkbox"/> pen pal | <input type="checkbox"/> <input type="checkbox"/> zookeeper |
| <input type="checkbox"/> <input type="checkbox"/> eyewitness | | |

Possible Products and Performances

What student products and performances will provide appropriate evidence of understanding and proficiency? The following lists offer possibilities. (Remember that student products and performances should be framed by an explicit purpose or goal and an identified audience.)

Written	Oral	Visual
<input type="checkbox"/> advertisement	<input type="checkbox"/> audiotape	<input type="checkbox"/> advertisement
<input type="checkbox"/> biography	<input type="checkbox"/> conversation	<input type="checkbox"/> banner
<input type="checkbox"/> book report or review	<input type="checkbox"/> debate	<input type="checkbox"/> cartoon
<input type="checkbox"/> brochure	<input type="checkbox"/> discussion	<input type="checkbox"/> collage
<input type="checkbox"/> collection	<input type="checkbox"/> dramatic reading	<input type="checkbox"/> computer graphic
<input type="checkbox"/> crossword puzzle	<input type="checkbox"/> dramatization	<input type="checkbox"/> data display
<input type="checkbox"/> editorial	<input type="checkbox"/> interview	<input type="checkbox"/> design
<input type="checkbox"/> essay	<input type="checkbox"/> oral presentation	<input type="checkbox"/> diagram
<input type="checkbox"/> experiment record	<input type="checkbox"/> oral report	<input type="checkbox"/> diorama
<input type="checkbox"/> historical fiction	<input type="checkbox"/> poetry reading	<input type="checkbox"/> display
<input type="checkbox"/> journal	<input type="checkbox"/> puppet show	<input type="checkbox"/> drawing
<input type="checkbox"/> lab report	<input type="checkbox"/> radio script	<input type="checkbox"/> filmstrip
<input type="checkbox"/> letter	<input type="checkbox"/> rap	<input type="checkbox"/> flyer
<input type="checkbox"/> log	<input type="checkbox"/> skit	<input type="checkbox"/> game
<input type="checkbox"/> magazine article	<input type="checkbox"/> song	<input type="checkbox"/> graph
<input type="checkbox"/> memo	<input type="checkbox"/> speech	<input type="checkbox"/> map
<input type="checkbox"/> newscast	<input type="checkbox"/> teach a lesson	<input type="checkbox"/> model
<input type="checkbox"/> newspaper article		<input type="checkbox"/> painting
<input type="checkbox"/> play	Other:	<input type="checkbox"/> photograph
<input type="checkbox"/> poem	<input type="checkbox"/> _____	<input type="checkbox"/> poster
<input type="checkbox"/> position paper	<input type="checkbox"/> _____	<input type="checkbox"/> PowerPoint show
<input type="checkbox"/> proposal		<input type="checkbox"/> questionnaire
<input type="checkbox"/> research report		<input type="checkbox"/> scrapbook
<input type="checkbox"/> script		<input type="checkbox"/> sculpture
<input type="checkbox"/> story		<input type="checkbox"/> slide show
<input type="checkbox"/> test		<input type="checkbox"/> storyboard
<input type="checkbox"/> Web site		<input type="checkbox"/> videotape
		<input type="checkbox"/> Web site