A Gift From Fadil

A Package Engineering Story

Written by the Engineering is Elementary Team
Illustrated by Keith Favazza

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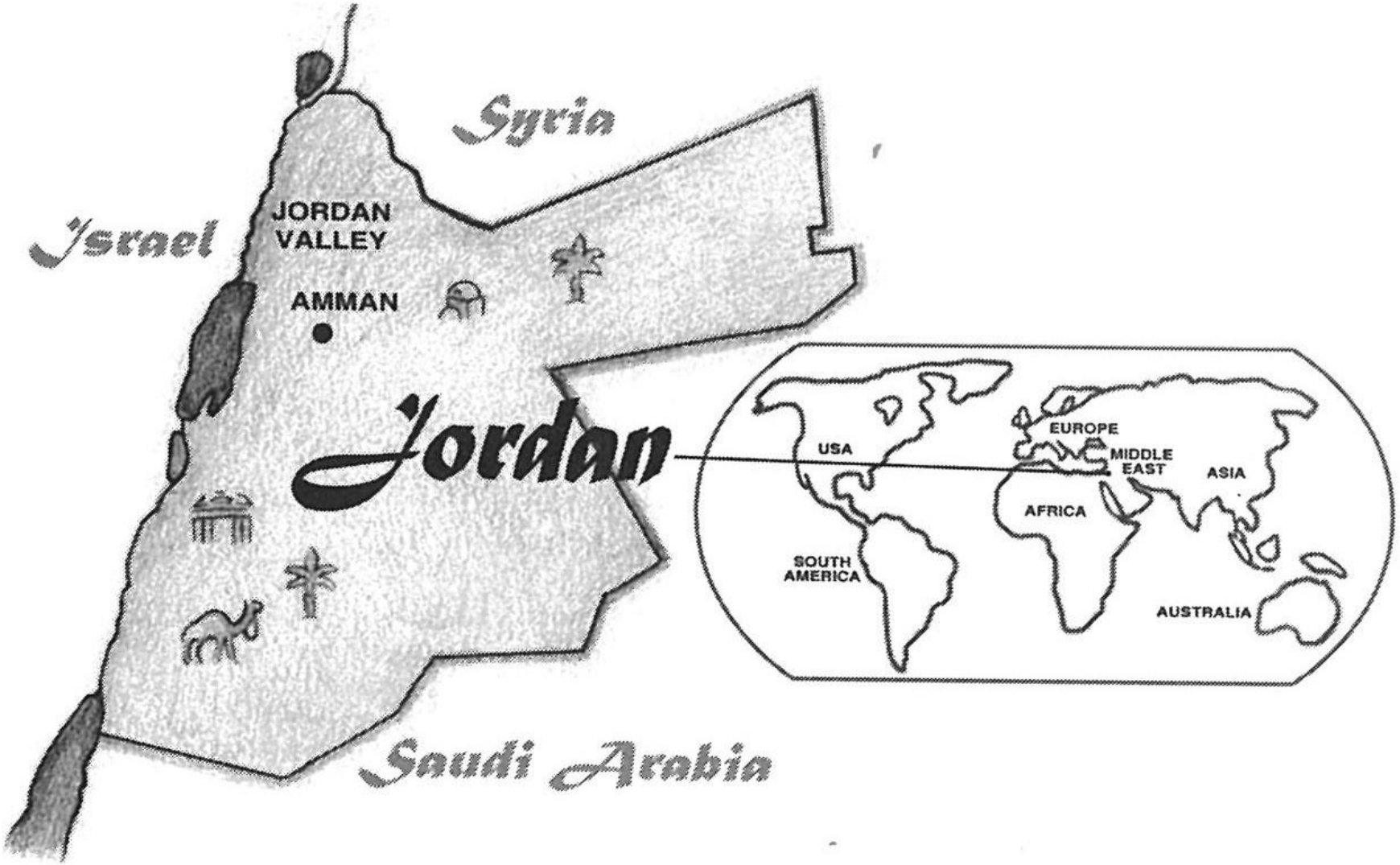
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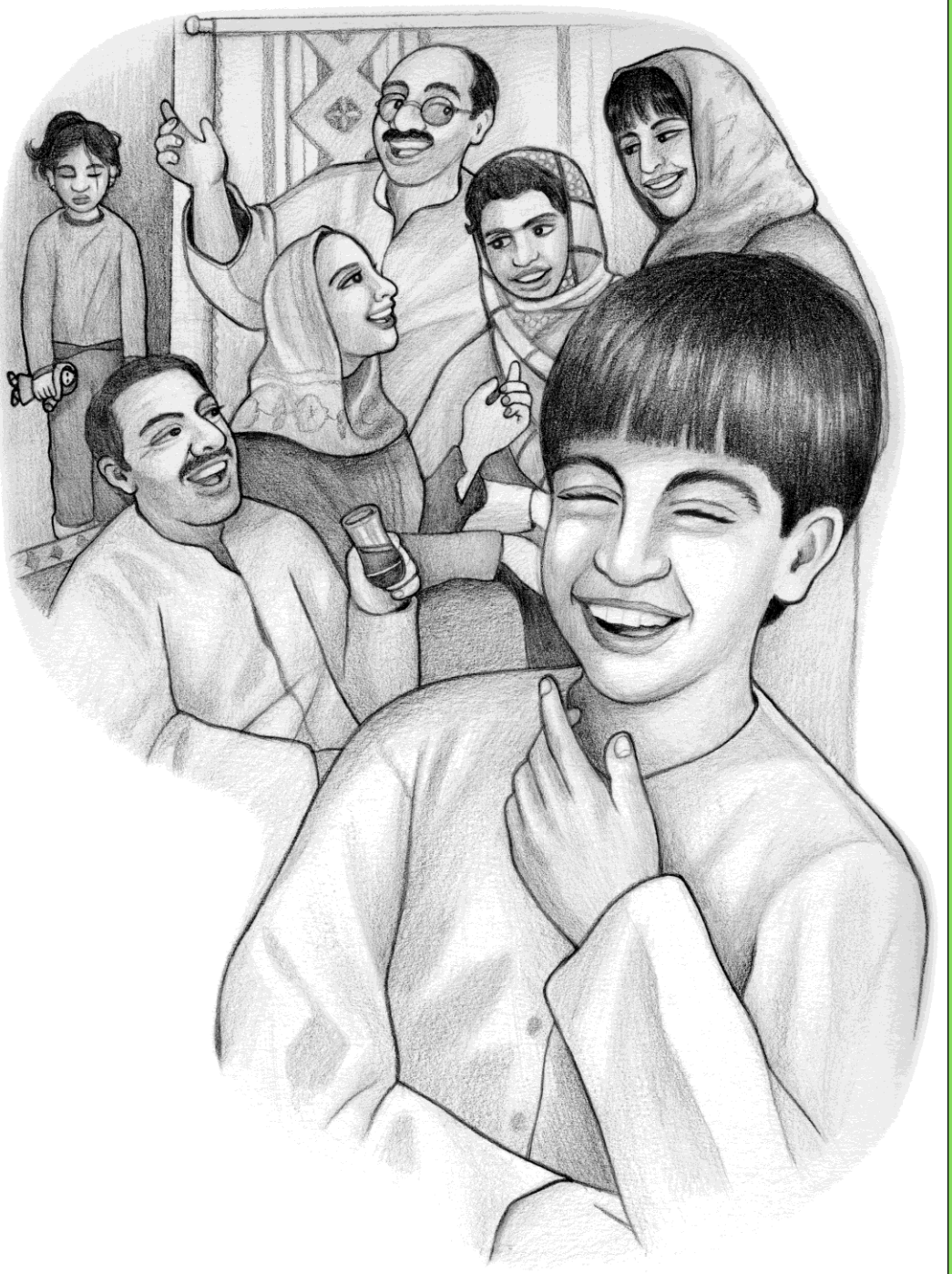

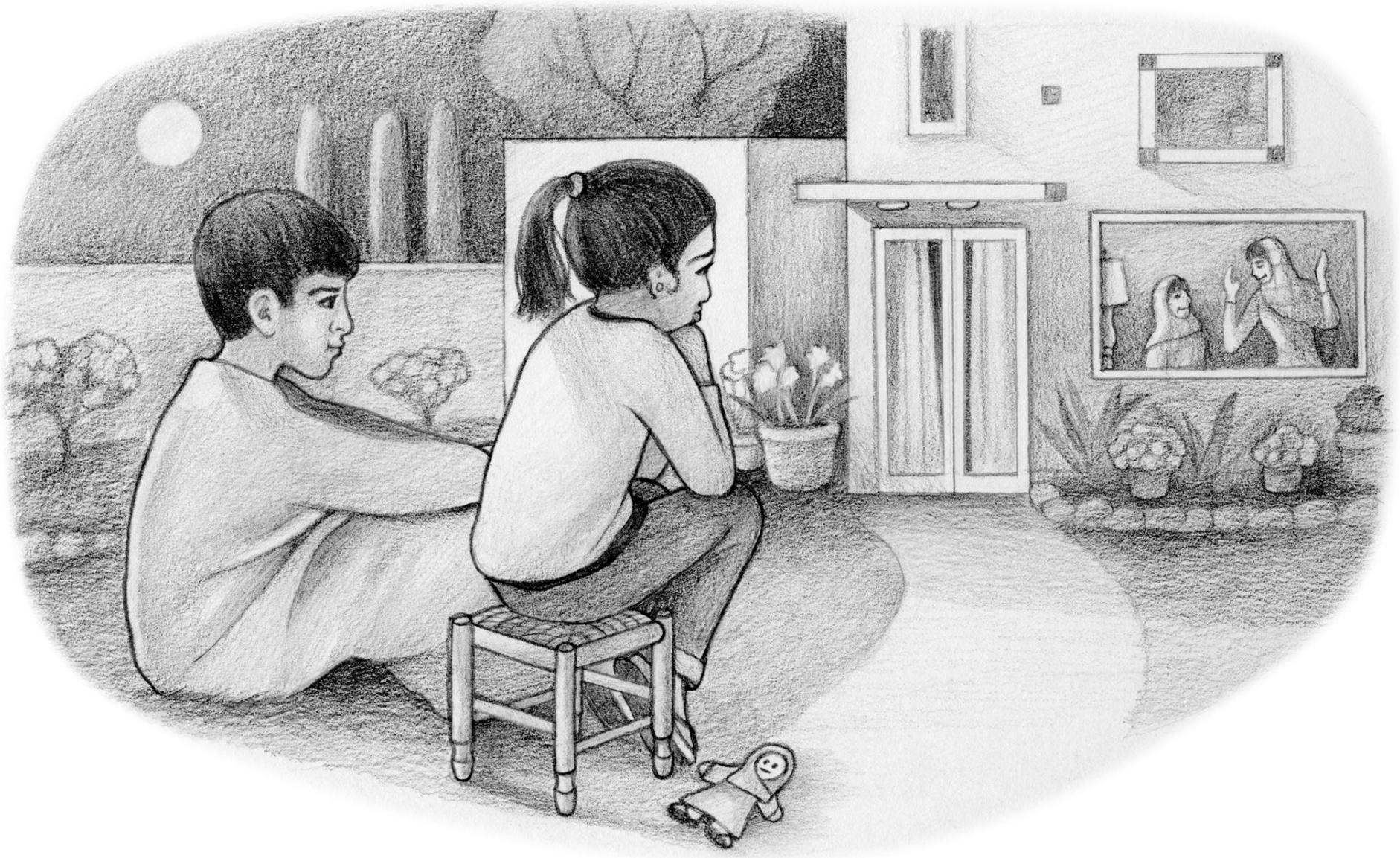

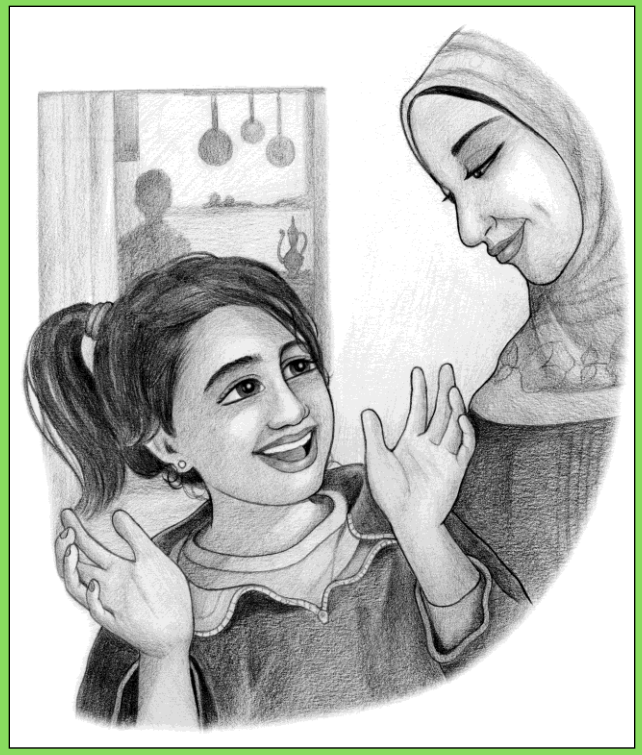

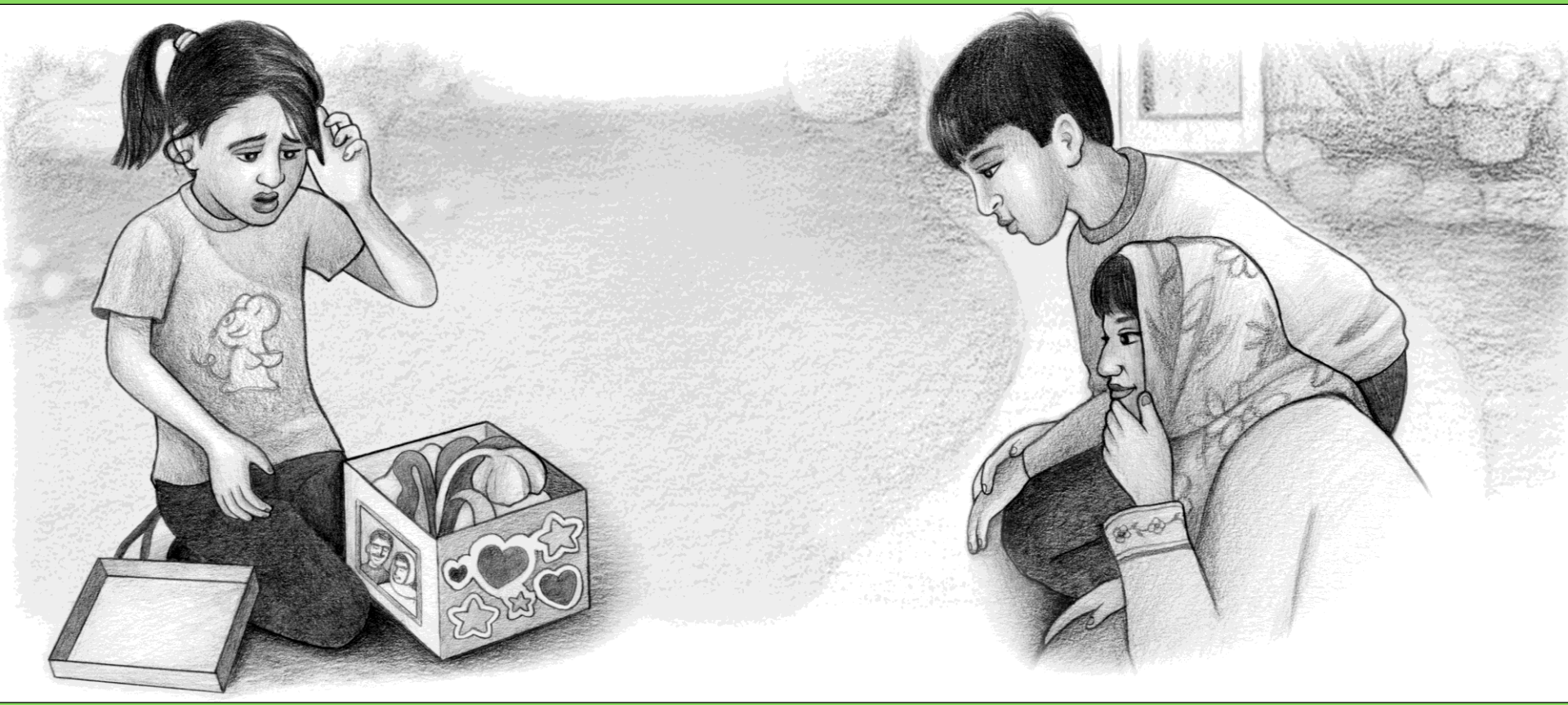

بيض
برتقال
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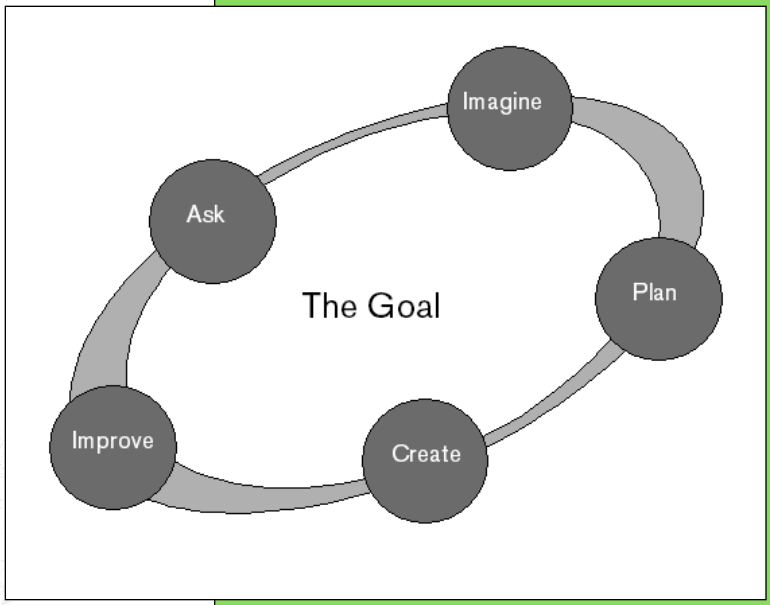
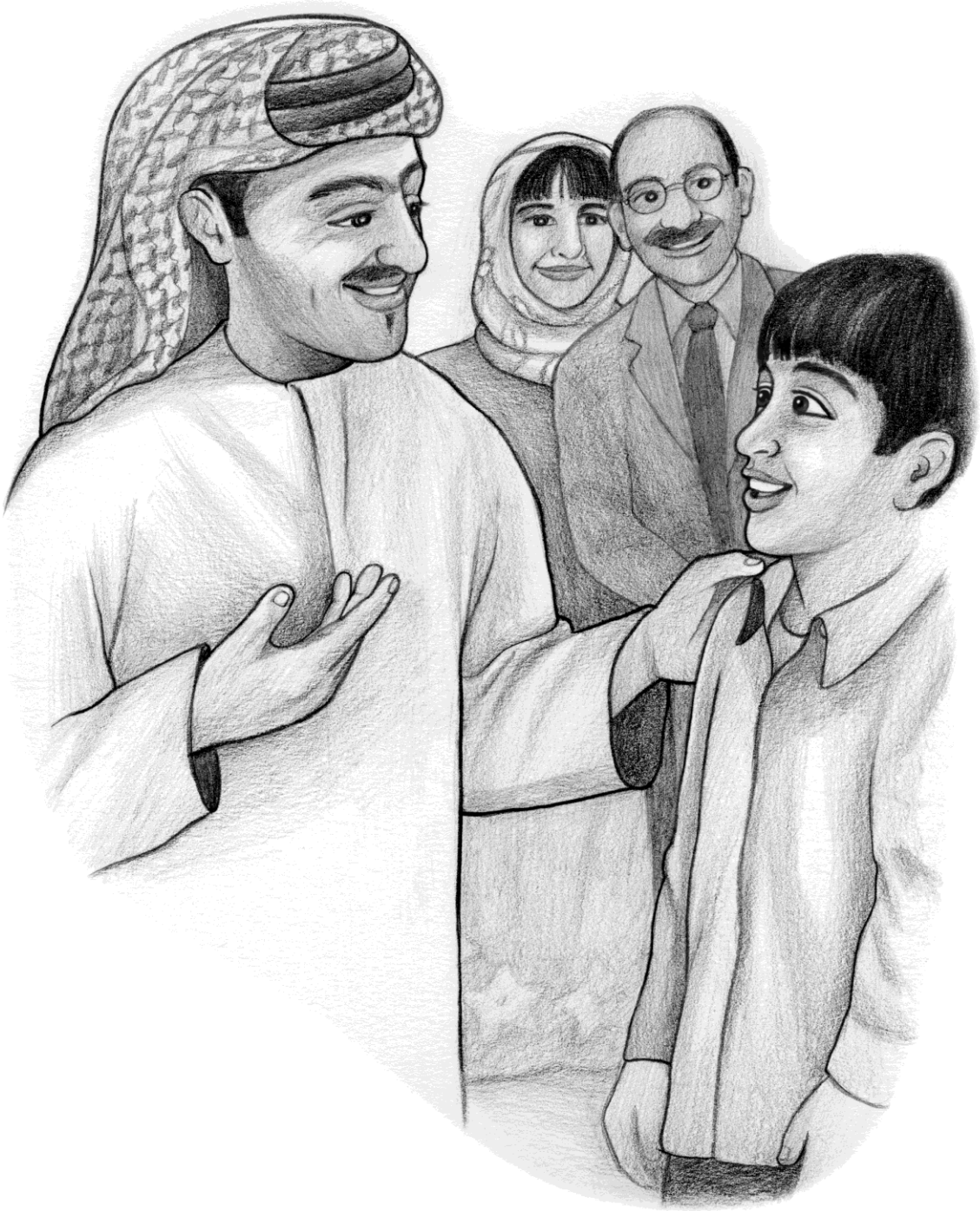

Imagine
Ask
The Goal
Plan
Improve
Create



Lesson 1: Important Points

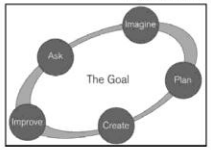
The Storybook:

- introduces field of engineering.
- makes science content relevant through the context of the engineering design challenge.
- introduces science and engineering vocabulary.
- introduces the Engineering Design Process.
- inspires students to do the engineering design challenge.
- is purposefully vague about the child's solution.

Name: _____ Date: _____

A

Fadil and the Engineering Design Process



Directions: In the boxes below, write or draw a picture explaining how Fadil completed each step of the Engineering Design Process.

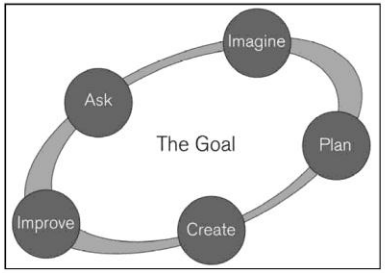
Step of the Engineering Design Process	How did Fadil complete this step?
Ask	
Imagine	
Plan	
Create	
Improve	

Name: _____ Date: _____

B

Fadil and the Engineering Design Process

Directions: Fadil used the Engineering Design Process to help him design a plant package. Complete the sentences below by filling in the correct step of the Engineering Design Process.



1. Making the plant package and testing it was part of the _____ step.

2. Going to the *souq* to look at different packages was part of the _____ step.

3. Changing the package design so that it was a better fit for the plant was part of the _____ step.

4. Making drawings of possible plant package designs with Bashira was part of the _____ step.

5. Making a final drawing of the package they wanted to make was part of the _____ step.

Jordan

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B A

Packages in the *Souq*

Directions: As Aunt Rasha, Bashira, and Fadil walked through the souq, they looked at different packages and identified some functions of packages. In the chart below, list how the products were packaged, the functions of the packages, and why the functions are important.

Name: _____ Date: _____

In the *souq*, they saw:	How was it packaged?	What was the function of the package?	Why is this function important?
Eggs			
Cucumbers			
Plates and Cups			
Perfume			

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B A

Name: _____ Date: _____

Vocabulary Definitions

A Gift From Fadil

B

Directions: Match each word in the box to the correct definition listed below.

Packaging engineer	Amaryllis	*Souq*
Technology	Engineering Design Process	

1. _____: The steps that engineers use to design something to solve a problem.

2. _____: Jordanian word for a market or bazaar.

3. _____: A plant with large flower blossoms.

4. _____: An engineer who designs packages for many different types of objects and thinks about how the package will contain, preserve, protect, display, and communicate information about what is inside.

5. _____: Any thing, system, or process that people create and use to solve a problem.

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