

# Package Design

## Module Activity Sheet

Name \_\_\_\_\_ Block \_\_\_\_\_

Enter Date example: Oct. 25

### Session # 1

Module Guide Score = \_\_\_\_\_ / 10 ..... Date Completed \_\_\_\_\_  
Packaging Materials ..... Date Completed \_\_\_\_\_  
Review Game (Bloop or Critter Cross Played) ..... Date Completed \_\_\_\_\_

### Session # 2

RCA 's Score = \_\_\_\_\_ / 30 ..... Date Completed \_\_\_\_\_  
Package Layout Activity ..... Date Completed \_\_\_\_\_  
Assessment Answers Completed in Packet (Pg. 2)... Date Completed \_\_\_\_\_  
Vocabulary Page Completed in Packet (Pg. 5)..... Date Completed \_\_\_\_\_

### Session # 3

RCA's Score = \_\_\_\_\_ / 30 ..... Date Completed \_\_\_\_\_  
Package Pattern Design ..... Date Completed \_\_\_\_\_  
Technical Writing Page Completed in Packet(Pg. 6) Date Completed \_\_\_\_\_

### Session # 4

RCA's Score = \_\_\_\_\_ / 30 ..... Date Completed \_\_\_\_\_  
Translations Activity ..... Date Completed \_\_\_\_\_  
Career Sheet Page Completed in Packet (Pg. 7) ..... Date Completed \_\_\_\_\_

### Session # 5

RCA's Score = \_\_\_\_\_ / 30 ..... Date Completed \_\_\_\_\_  
Reflections Activity ..... Date Completed \_\_\_\_\_  
Word Search Page Completed in Packet (Pg. 8)..... Date Completed \_\_\_\_\_

### Session # 6

Test Review "Game"..... Date Completed \_\_\_\_\_  
Rotations, Reflections & Translations Activity..... Date Completed \_\_\_\_\_  
Assessment Answers Completed in Packet (Pg. 3)... Date Completed \_\_\_\_\_  
Test Review Page Completed in Packet (Pg. 9)..... Date Completed \_\_\_\_\_

### Session # 7

Post Test Score = \_\_\_\_\_ / 100 % ... Date Completed \_\_\_\_\_  
Package Construction Activity ..... Date Completed \_\_\_\_\_  
Assessment Answers Completed in Packet (Pg. 4)... Date Completed \_\_\_\_\_  
I Have Inspected My Packet – It is Complete..... Date Completed \_\_\_\_\_



# Package Design

## Assessment Worksheet Session 6

Instructions: On the session day indicated above, please write the answers to the assessment questions.

**If you need more room to write a response – use the back of this page.**

### Session 6 – Rotations, Reflections, and Translations

1. **Define the terms below:**

1. Rotations –

2. Reflections –

3. Translations -

2. **Thumbnail Sketch** a coordinate grid in the space below and put a dot where point 1, 1 would be and where  $-1, -1$  would be.

3. **Explain** how and object's coordinates are affected by rotation, reflection and / or translation in a couple sentences.

4. **Explain** how rotations, reflections, and translations are used to create art.



# Package Design Vocabulary Worksheet

Please write a definition for each vocabulary term.

1. Tessellations-

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2. Translation-

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3. Rotation-

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4. Axiom-

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5. Obtuse Angle-

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6. Parallel lines-

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7. Proof-

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8. Congruent angles-

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9. Lattice-

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10. Geometry-

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11. Plane-

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12. Endpoints-

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13. Vertex-

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14. Exterior angle-

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15. Formula-

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## Package Design Career Investigation

From the *Occupational Outlook Handbook* –Look up the career that is assigned to your module topic. Using the information in the book answer the following question about the assigned career. The career for your module is:

### **Commercial and Industrial Designers and is on Page 240**

1. **Nature of the work** (What does the occupation do?):
  - A.
  - B.
2. **Working conditions** (Ex. inside / outside, clean / dirty, safe / hazardous etc.):
3. **Training or education needed, other qualifications required, and possible advancements / promotions:**
4. **Job Outlook** (In the future, what is the demand / forecast for this job):
5. **Earnings** (What is the average salary / income for this career):
6. **Related occupations** (What other occupations are part of the selected topic):
  - A.
  - B.
7. **Sources of additional information** (Sites, agencies or references to provide more information on your selected occupation):
  - A.
  - B.

## Package Design Module WordSearch

L A D I Z X H I I S S S T C V R O R C H  
 L E D L R N C S A N F H P P O Q O M D G  
 R Y F I L M L B R N M N I I H V E H S C  
 S C P R T U E I D R T H R U O W F E M K  
 G Q S S S O K V E R T E X C M P S T G Z  
 P H C U T O O X L A T T I C E C E P N A  
 V D T T A C C G T X T I A I H H O Q N L  
 B L Q N R P G E E N D P O I N T S Z C Q  
 E R O I N E X O S I E N F S P E M M G E  
 S W E F S H S M S V N E O N W T E F R N  
 P T L E E P H E E R O A R J N J O I T G  
 H E N L I P A T L Z J L M E P A E Y U X  
 P I G I S R P R L S G J U Z I M E U E N  
 L N B M M O E Y A S D R L M O H W T E H  
 A B H O E O C E T L G W A J E P W S N B  
 N O I O C F U D I N L L W G R O U P D U  
 E X R O T A T I O N V E E V P T V D C A  
 A N E B E P C C N G S O L S B M N E D I  
 K R I A T R A N S L A T I O N H H O C R  
 P E D M M E Q A A E X V O U E O S M O H

**Find the following hidden words:**

tessellations, translation, rotation, axiom, obtuse, parallel, proof, congruent,  
 lattice, geometry, plane, endpoints, vertex, exterior, formula, lines, angle,  
 shape, volume, box



# Package Design

## Test Review

**Circle the correct answers while playing the Review Game at the beginning of Session # 6.**

1. Aubrey is sending a box of pecans to her uncle. The box is 14 inches by 9 inches by 8 inches. What is the volume of the box she is sending?
  - A. 31 inches cubed
  - B. 134 inches cubed
  - C. 1,008 inches cubed
  - D. 86 inches cubed
2. What is a slide of an object along a line in a plane?
  - A. tessellation
  - B. rotation
  - C. translation
  - D. reflection
3. What is the term for a repetitive pattern that covers a plane, leaving no gaps?
  - A. translation
  - B. tessellation
  - C. transformation
  - D. reflection
4. how many faces does a cube have?
  - A. 4
  - B. 6
  - C. 8
  - D. 10
5. A circle with a center point (2, 3) is reflected across the x-axis. What is the center point of the reflected image of the circle?
  - A. (-2, -3)
  - B. (2, -3)
  - C. (2, 3)
  - D. (-2, 3)
6. Which of these objects would tessellate through translation-based tessellation?
  - A. triangle
  - B. pentagon
  - C. hexagon
  - D. circle
7. The pattern for a cylindrical package consists of two circles and what other shape?
  - A. a rectangle
  - B. a triangle
  - C. an ellipse
  - D. a trapezoid
8. If point (-1, 2) were translated three units up, what would be it new coordinates?
  - A. (2, 1)
  - B. (1, 2)
  - C. (2, -2)
  - D. (-1, 1)
9. How many triangular sections would a pattern of a pyramid with a square base contain?
  - A. 0
  - B. 2
  - C. 3
  - D. 4
10. During which of the following does the orientation of an object remain the same?
  - A. reflection
  - B. translation
  - C. rotation
  - D. tessellation