

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Volume Project



### Your Task:

Create a 3D art display of an animal or person using only recycled materials.  
You will also calculate the volume of your art piece.

### Project Requirements:

1. The animal or person you create must contain each of the following 3D figures:
  - Rectangular Prism
  - Cone
  - Sphere
  - Cylinder
2. Your art piece must be created entirely from recycled materials.
3. Write a short “bio”, which introduces others to your creation and tells their background story.
4. Complete all volume calculations for each figure in your art piece and find the total volume of your piece by completing the “Volume Calculation Sheet”.

You may choose to work individually, or with a partner.

**Have fun! Work hard! Be creative!**

### Advanced Option

Incorporate a different 3D shape into your project, other than one of the four required shapes. Then research the volume formula for this shape and calculate its volume, showing all work on your “Volume Calculation Sheet”.

## Sheet

Art Piece Will Be A(n): \_\_\_\_\_

### Sketch of Art Piece:

*Create a sketch of your art piece in the space below.  
Be sure to label each type of 3D figure you use. Remember, your piece must include a  
rectangular prism, cylinder, sphere, and cone.*

### Materials

Complete the table below to plan our materials needed and who will be providing them. Limited paint, glue, and masking tape will be provided. You may bring in your own paint, glue, or tape as well.

Body Part	Type of Shape	Recycled Material Used
Head		
Body		
Arm (Left)		
Arm (Right)		
Leg (Left)		
Leg (Right)		

## Volume Calculation Sheet

Complete the following table for all volume calculations. Show all work.  
Remember all measurements should be in centimeters.

Body Part and Measurements	Volume Calculation	Final Answer
Body Part: _____ Type of Shape: _____ Measurements ( <i>cm</i> ):	Volume Formula: _____ Calculation (Show ALL Steps):	
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**TOTAL VOLUME:** \_\_\_\_\_  $cm^3$

