## SOLIDS FOR YOYR TORSO

$\qquad$

- YOU NEED 4 OF THESE FIGURES
- CHOOSE 1 OR 2 FROM COLUMN A
- IF YOU CHOOSE 1 FROM COLUMN A, THEN YOU NEED 3 FROM COLUMN B
- IF YOU CHOOSE 2 FROM COLUMN A, THEN YOU NEED 2 FROM COLUMN B
COLUMN A
Choose 1 or 2 from this column
$\checkmark \quad$ My 4 solids are:


Shapes I will have on my drawing:
$-$
$\qquad$
$\qquad$
$\qquad$
$\checkmark \quad$ Are my shapes solidly connected together? $\qquad$
$\checkmark \quad$ Dimensions of my solids:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Length= $\qquad$ Width= $\qquad$
Length= $\qquad$ Width= $\qquad$
Length= $\qquad$ Width= $\qquad$
Length= $\qquad$ Width $=$ $\qquad$
$\checkmark$ I am thinking about using my circuit to
$\qquad$
$\checkmark$ And I will place the circuit:
$\qquad$ .

## SLIDE SAMPLES

## SLIDE \# 1 SAMPLE

Shayna Shusierman- Week 1 Torso


Click for the Little Bits movie

I secured my solids together using tape, so they won't fati apart.

## SLIDE \# 2 SAMPLE

## Pranit Shaf; Week 2: Scale

My highlights for this part of the project is that it was easy and fun putting the shapes together on your graph paper, and I liked how my project looked from above so it might change how I present my project.

The hardest part of this project was when I changed my scale because my project wouldn't fit on the graph paper with the scale 4:3, I ended up changing it to $5: 3$.


## SLIDE \#3 SAMPLE

## Kyle LeVangie: Week Three Appendages

Hardships: It was hard to make my head (which is styrofoam) stop shedding so I put a plastic bag over it.

Highlights: It was fun to see what my project became. I also enjoyed using the glue gun.


Cone
Square Pyramid
Circle 2
Circle 3
Circle 4
Circle 1

## FINAL SLIDE SAMPLE



I am proud of my final creature because I worked really hard on it and I think it turned out well. One thing I would change is the legs. One thing that helped me practice math was the scaling. It was a good refresher on how to scale things down and then graph it. I think this project was very well run this year. I liked how it was broken up into different assignments so it wasn't overwhelming and I liked how we had our folders so we could work ahead in the weeks if we wanted. I also think that not doing that perimeter and area was a good idea. I think it would have been more rushed and stressful if we had to and it was just a review. My story is about Lucy the ladybug who tries to be helpful when planning her friends birthday party, but ends up messing up in the process.


Shape \#1 is a:___ | as (on my creature) |
| :--- |
| Wimensions of the actual shape: (in inches) |
| Length $=$ |
| Scale Calculations: (2 proportions below: 1 for length | and 1 for width):

Shape \#3 is a: $\qquad$
$\qquad$ 3 - D (on my creature)
as a polygon on my drawing
Dimensions of the actual shape: (in inches)
Length $=\quad$ Width $=$

Scale Calculations: (2 proportions below: 1 for length and 1 for width):

Shape \#2 is a: $\qquad$ $\ldots 3-\mathrm{D}$ (on my creature)
$\qquad$ as a polygon on my drawing

Dimensions of the actual shape: (in inches)
Length $=$
Width $=$
Scale Calculations: (2 proportions below: 1 for length and 1 for width):

Shape \#4 is a: $\qquad$ $\ldots 3-\mathrm{D}$ (on my creature) ___ as a polygon on my drawing

Dimensions of the actual shape: (in inches)

$$
\text { Length }=\quad \text { Width }=
$$

Scale Calculations: (2 proportions below: 1 for length and 1 for width):

# Creativity and Effort Rubric 

|  | Extending | Achieving | Developing | Beginning |
| :---: | :---: | :---: | :---: | :---: |
| Effort | $\checkmark$ Complete <br> $\checkmark$ Detailed <br> $\checkmark$ Great pride in work <br> $\checkmark$ Work is beyond what is expected <br> $\checkmark$ Shows personal touch | $\checkmark$ Complete <br> $\checkmark$ Detailed <br> $\checkmark$ Pride in work <br> $\checkmark$ Work is what is expected | $\checkmark$ Some part not complete <br> $\checkmark$ Little detail <br> $\checkmark$ Work is a little less than what is expected | $\checkmark$ Some parts not complete <br> $\checkmark$ Little to no detail <br> $\checkmark$ Work is not what is expected <br> $\checkmark$ Project looks forced <br> $\checkmark$ Lacks accuracy and/or clarity |
| Creativity | $\checkmark$ Many new and original ideas; unique <br> $\checkmark$ Does not look like all the others <br> $\checkmark$ Eye Catching <br> $\checkmark$ Exemplary use of color, texture, shapes and spacing of materials | $\checkmark$ Some original ideas <br> $\checkmark$ Visually appealing <br> $\checkmark$ Good use of color, texture, shapes and spacing of materials | $\checkmark$ Some new ideas or improvements, but most is predictable <br> $\checkmark$ Some parts visually appealing <br> $\checkmark$ Experimenting with the use of color, texture, shapes and spacing of materials <br> $\checkmark$ Experiments with creating a new model <br> $\checkmark$ Seems familiar and not new. | $\checkmark$ No original ideas; relies on existing models or ideas <br> $\checkmark$ Not visually appealing <br> $\checkmark$ None or very little use of color, texture, shapes <br> $\checkmark$ Materials are not connected effectively |
| Neatness | $\checkmark$ Patiently completed <br> $\checkmark$ All parts are well attached <br> $\checkmark$ Well organized <br> $\checkmark$ Clean and neat | $\checkmark$ Completed <br> $\checkmark$ Parts are attached, but not securely <br> $\checkmark$ Clean and neat <br> $\checkmark$ Organized | $\checkmark$ Completed in a hurry <br> $\checkmark$ Parts are wobbly <br> $\checkmark$ Work is a little messy | $\checkmark$ Not completed <br> $\checkmark$ Parts are falling off <br> $\checkmark$ Not organized <br> $\checkmark$ Messy work - not clean and neat |

## APPENDIX 6



VOLUNE AND SURFACE AREA OF RECTANGULAR PRISM

All volumes and surface areas are of the actual creatures, not the scaled drawing!

Length : $\qquad$ Width : $\qquad$ Height: $\qquad$
Formula: Frace Area Formula:

TRIANGLE 1: TYPE OF TRIANGLE $\qquad$
SCALE CALCULATIONS:

TRIANGLE 2: TYPE OF TRIANGLE $\qquad$
SCALE CALCULATIONS:

TRIANGLE 3: TYPE OF TRIANGLE $\qquad$
SCALE CALCULATIONS:

Perimeter of Triangle \# $\qquad$ .

Sketch it here and then compute the perimeter.

Area of Triangle \# $\qquad$ .

Sketch it here. Formula you will be using: $\qquad$ . Compute the area.

Actual cylinder Height = $\qquad$ Actual cylinder width $($ diameter $)=$

Scale calculations:
Height:
Width:

Sphere - determine the diameter from the circumference. Measure the circumference and then use a formula to determine the diameter. Formula to use: $\qquad$ —.

Scale calculations using the diameter:

Circumference of the circle you have drawn on your graph paper to represent your sphere. Formula:

Calculations:

Area of the circle you have drawn on your graph paper to represent your sphere.
Formula:

Calculations:

## CIRCLES

DIAMETER OF ACTUAL CIRCLE: $\qquad$
Scale calculations: (use the diameter and proportion)

## Circumference of scaled circle

Formula: $\qquad$
Work:

## Area of scaled circle

Formula: $\qquad$
Work:

