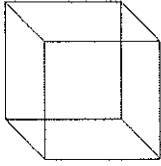
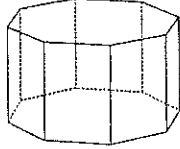

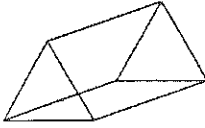
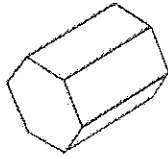
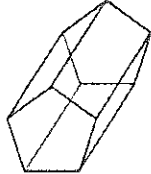


SOLIDS FOR YOUR TORSO

- YOU NEED 5 OF THESE FIGURES
- CHOOSE 1 FROM COLUMN A
- CHOOSE 4 FROM COLUMN B

<p>COLUMN A Choose 1 from this column</p>	<p>COLUMN B Choose 4 from this column (they must all be different.) You could also use other shapes (these are just a few) as long as all the ones you choose have a different number of sides.</p>
<p>CUBE</p> 	 <p>OCTAGONAL PRISM</p>
 <p>RECTANGULAR PRISM</p>	 <p>TRIANGULAR PRISM</p>
	 <p>HEXAGONAL PRISM</p>
	 <p>PENTAGONAL PRISM</p>

TORSO SHAPES

✓ My 5 solids are:

Shapes I will have on my drawing:

<p>Example: <u>Triangular prism</u></p>	<p><u>Triangle</u></p>
---	------------------------

✓ Are my shapes solidly connected together? _____

✓ Dimensions of my solids:

_____	Length= _____	Width= _____
_____	Length= _____	Width= _____
_____	Length= _____	Width= _____
_____	Length= _____	Width= _____
_____	Length= _____	Width= _____

APPENDIX 2 (cont'd)

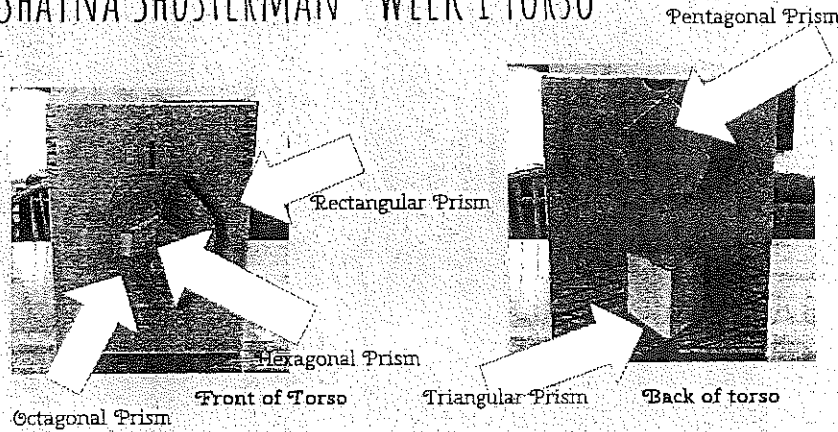
✓ I am thinking about using my circuit to

✓ And I will place the circuit:

SLIDE SAMPLES

SLIDE # 1 SAMPLE

SHAYNA SHUSTERMAN - WEEK 1 TORSO



Click for the 'Little Bits' movie

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

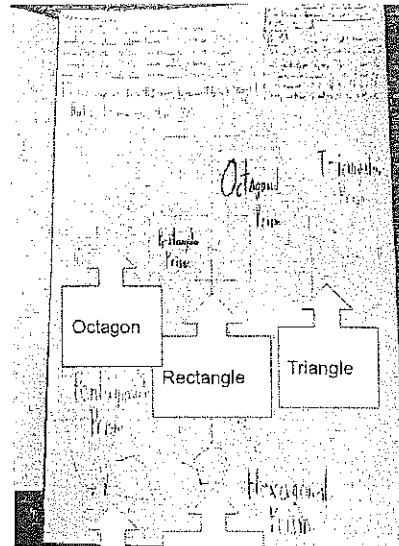
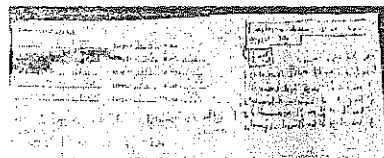
Highlights- Watching something that I have imagined in my head come together was very cool and exciting and taping the shapes together was very easy.
 Challenges- It was very hard to cut the cardboard to make my shapes, and I had to keep trying and trying to get the shapes right. Also, I couldn't figure out how to fit my torso in one picture.

SLIDE # 2 SAMPLE

PRANIT SHAH; 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.

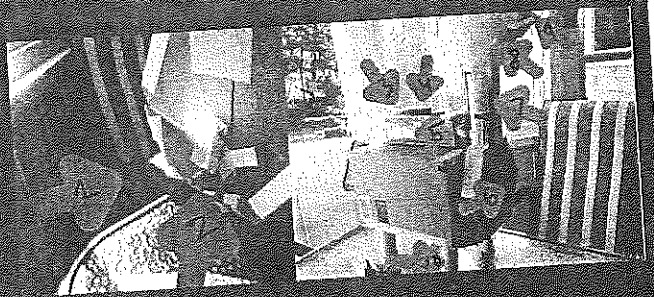


SLIDE #3 SAMPLE

Kyle LeVange, Week Three Appendages

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

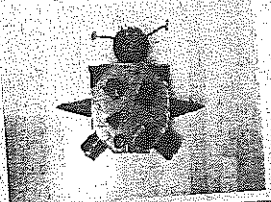
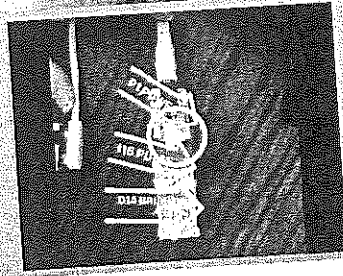
Highlights: It was fun to see what my project became. I also enjoyed using the glue gun.



1. Cone	7. Cylinder
2. Square Pyramid	8. Sphere
3. Circle 2	9. Triangular pyramid
4. Circle 3	10. Cylinder
5. Circle 4	
6. Circle 1	

FINAL SLIDE SAMPLE

SARAH CONCAGH

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 fun 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.

Appendix 4A

CALCULATIONS: ASSIGNMENT # 2

Scale factor for my project will be:

1" : 1/2" (write it on your graph paper too)

Shape # 1 is a:
hex prism 3 dimensional
hexagon on drawing

Dimensions of the actual shape:

Length: 3.5"
Width: 4"

Scale calculations (2 proportions below for length and width):

<u>Length</u> =	<u>width</u> =
$\frac{1}{.5} = \frac{3.5}{x}$	$\frac{1}{.5} = \frac{4}{x}$
$x = 1.75"$	$x = 2"$

Shape # 2 is a:
Rect prism 3 dimensional
Rect on drawing

Dimensions of the actual shape:

Length: 3.2"
Width: 2"

Scale calculations (2 proportions below for length and width):

<u>Length</u> =	<u>width</u> =
$\frac{1}{.5} = \frac{3.2}{x}$	$\frac{1}{.5} = \frac{2}{x}$
$x = 1.6"$	$x = 1"$

SCALING

Shape #1 is a: _____
_____ 3 - D (on my creature)
_____ 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 #2 is a: _____
_____ 3 - D (on my creature)
_____ 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 #3 is a: _____
_____ 3 - D (on my creature)
_____ 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: _____
_____ 3 - D (on my creature)
_____ 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):

APPENDIX 4 (cont'd)

Shape #5 is a: _____

_____ 3-D (on my creature)

_____ 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):

Creativity and Effort Rubric

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

<p>Perimeter – Polygon 1 Shape: _____</p> <p>Sketch your shape here and then determine the perimeter.</p> <p>Write on your drawing P = _____</p>	<p>Area – Polygon 1 Shape: _____</p> <p>Sketch your shape here, show the formula you will use _____, and then show your work.</p> <p>Write on your drawing A = _____</p>
<p>Perimeter – Polygon 2 Shape: _____</p> <p>Sketch your shape here and then determine the perimeter.</p> <p>Write on your drawing P = _____</p>	<p>Area – Polygon 2 Shape: _____</p> <p>Sketch your shape here, show the formula you will use _____, and then show your work.</p> <p>Write on your drawing A = _____</p>

APPENDIX 6 - part 2

Perimeter – Polygon 3³

Shape: _____

Sketch your shape here and then determine the perimeter.

Write on your drawing P = _____

Perimeter – Polygon 4

Shape: _____

Sketch your shape here and then determine the perimeter.

Write on your drawing P = _____

Area – Polygon 3

Shape: _____

Sketch your shape here, show the formula you will use _____, and then show your work.

Write on your drawing A = _____

Area – Polygon 4

Shape: _____

Sketch your shape here, show the formula you will use _____, and then show your work.

Write on your drawing A = _____

APPENDIX 6 – part 3

Perimeter – Polygon 5

Shape: _____

Sketch your shape here and then determine the perimeter.

Write on your drawing $P =$ _____

Area – Polygon 5

Shape: _____

Sketch your shape here, show the formula you will use _____, and then show your work.

Write on your drawing $A =$ _____

VOLUME AND SURFACE AREA OF RECTANGULAR PRISM

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

Length : _____ Width : _____ Height: _____

Surface Area

Formula:

Write on your drawing SA =

Volume

Formula:

Write on your drawing V =

TRIANGLES

TRIANGLE 1: TYPE OF TRIANGLE _____

SCALE CALCULATIONS:

TRIANGLE 2: TYPE OF TRIANGLE _____

SCALE CALCULATIONS:

TRIANGLE 3: TYPE OF TRIANGLE _____

SCALE CALCULATIONS:

ACC

TRIANGLES

APPENDIX 9

Perimeter of Triangle # ____.

Sketch it here and then compute the perimeter.

Area of Triangle # ____.

Sketch it here. Formula you will be using: _____. Compute the area.

APPENDIX 9 (cont'd)

Perimeter of Triangle # ____.

Sketch it here and then compute the perimeter.

Area of Triangle # ____.

Sketch it here. Formula you will be using: _____. Compute the area.

ACC

APPENDAGES

APPENDIX 10

Appendage #1 will be your cylinder.

Cylinder Height = _____ Cylinder width (diameter) = _____

Scale calculations:

Height:

Width:

Appendage #2 is a _____.

If it is identical to appendage #1, you can write "same" below.

Height = _____ Width (diameter) = _____

Scale calculations:

Height:

Width:

APPENDIX 10 (cont'd)

Appendage #3 is a _____.

If it is identical to another appendage, you can write "same as appendage # __" below.

Height = _____ Width (diameter) = _____

Scale calculations:

Height:

Width:

Appendage #4 is a _____.

If it is identical to another appendage, you can write "same as appendage # __" below.

Height = _____ Width (diameter) = _____

Scale calculations:

Height:

Width:

SPHERE

Sphere – determine the diameter from the circumference. Measure the circumference and then use a formula to determine the diameter. Formula to use: _____.

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 #1: _____

Scale calculations: (use the diameter and proportion)

Circumference of scaled circle #1

Formula: _____

Work:

Area of scaled circle #1

Formula: _____

Work:

APPENDIX 12 (cont'd)

DIAMETER OF ACTUAL CIRCLE #2: _____

Scale calculations: (use the diameter and proportion)

Circumference of scaled circle #2

Formula: _____

Work:

Area of scaled circle #2

Formula: _____

Work:

APPENDIX 12 (cont'd)

DIAMETER OF ACTUAL CIRCLE #3: _____

Scale calculations: (use the diameter and proportion)

Circumference of scaled circle #3

Formula: _____

Work:

Area of scaled circle #3

Formula: _____

Work:

APPENDIX 12 (cont'd)

DIAMETER OF ACTUAL CIRCLE #4: _____

Scale calculations: (use the diameter and proportion)

Circumference of scaled circle #4

Formula: _____

Work:

Area of scaled circle #4

Formula: _____

Work: