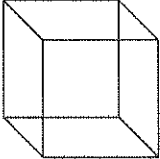
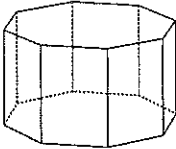
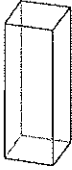
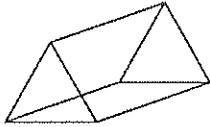
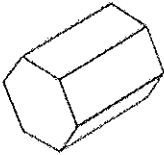
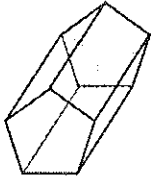


SOLIDS FOR YOUR TORSO

APPENDIX 1

- 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	COLUMN B Choose 2 or 3 from this column
<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 4 solids are:

Shapes I will have on my drawing:

Example:

Triangular prism

Triangle

—

✓ Are my shapes solidly connected together? _____

✓ Dimensions of my solids:

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

✓ I am thinking about using my circuit to

✓ And I will place the circuit:

SLIDE SAMPLES

SLIDE # 1 SAMPLE

SHAYNA SHUSTERMAN - WEEK 1 TORSO

Pentagonal Prism

Click [here](#) for the Little Bits movie

Rectangular Prism

Hexagonal Prism

Triangular Prism

Back of torso

Front of Torso

Octagonal Prism

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.

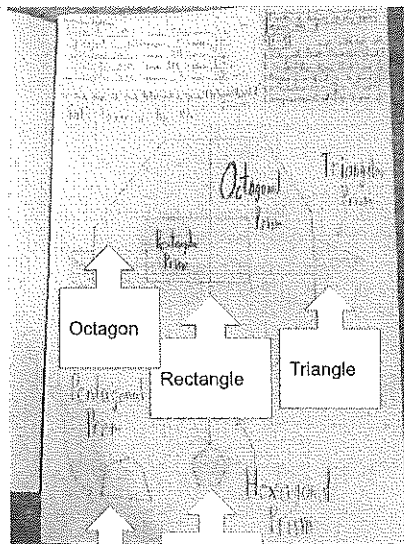
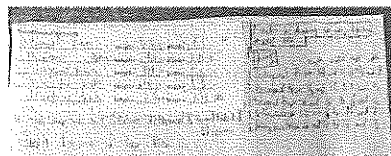
Hardships - It was very hard to cut the cardboard to make my shapes, and I had to keep trying and trying to get the shapes right. Also, I couldn't figure out how to fit my torso in one picture.

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 LeVangie: Week Three Appendages

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

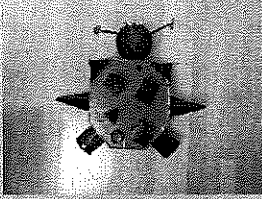

Highlights: It was fun to see what my project became. I also enjoyed using the glue gun.



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

...the spirit of my final creature because I tried 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 toad who tries to be helpful when planning her friends birthday party, but ends up getting up in the process.

CALCULATIONS: ASSIGNMENT # 2

Appendix 4A

Scale factor for my project will be:

$$1'' : \frac{1}{2}'' \quad (\text{write it on your graph paper too})$$

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):

Length =

$$\frac{1}{.5} = \frac{3.5}{x}$$

$$x = 1.75''$$

width =

$$\frac{1}{.5} = \frac{4}{x}$$

$$x = 2''$$

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):

Length =

$$\frac{1}{.5} = \frac{3.2}{x}$$

$$x = 1.6''$$

width =

$$\frac{1}{.5} = \frac{2}{x}$$

$$x = 1''$$

<p>Shape #1 is a: _____</p> <p>_____ 3 – D (on my creature)</p> <p>_____ as a polygon on my drawing</p> <p>Dimensions of the actual shape: (in inches)</p> <p>Length = Width =</p> <p>Scale Calculations: (2 proportions below: 1 for length and 1 for width):</p>	<p>Shape #2 is a: _____</p> <p>_____ 3 – D (on my creature)</p> <p>_____ as a polygon on my drawing</p> <p>Dimensions of the actual shape: (in inches)</p> <p>Length = Width =</p> <p>Scale Calculations: (2 proportions below: 1 for length and 1 for width):</p>
<p>Shape #3 is a: _____</p> <p>_____ 3 – D (on my creature)</p> <p>_____ as a polygon on my drawing</p> <p>Dimensions of the actual shape: (in inches)</p> <p>Length = Width =</p> <p>Scale Calculations: (2 proportions below: 1 for length and 1 for width):</p>	<p>Shape #4 is a: _____</p> <p>_____ 3 – D (on my creature)</p> <p>_____ as a polygon on my drawing</p> <p>Dimensions of the actual shape: (in inches)</p> <p>Length = Width =</p> <p>Scale Calculations: (2 proportions below: 1 for length and 1 for width):</p>

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

PERIMETER AND AREA

Perimeter – Polygon 1
Shape: _____

Sketch your shape here and then determine the perimeter.

Write on your drawing P = _____

Area – Polygon 1
Shape: _____

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

Write on your drawing A = _____

Perimeter – Polygon 2
Shape: _____

Sketch your shape here and then determine the perimeter.

Write on your drawing P = _____

Area – Polygon 2
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:

TRIANGLES

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.

CYLINDER

Actual cylinder Height = _____ Actual cylinder 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: _____

Scale calculations: (use the diameter and proportion)

Circumference of scaled circle

Formula: _____

Work:

Area of scaled circle

Formula: _____

Work: