APPENDIX 1

SOLIDS FOR YOUR TORSO

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

	LOWIN D
COLUMN A Choose 1 from this column	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.
CUBE	OCTAGONAL PRISM
RECTANGULAR PRISM	TRIANGULAR PRISM
	HEXAGONAL PRISM
	PENTAGONAL PRISM

TORSO SHAPES

<u> </u>	My 5 solids are:		Snapes I will have on my drawing:
Έχ	cample: <u>Triangular prism</u>		<u>Triangle</u>
-			
=			
-			
-			
_			
✓	Are my shapes solidly connect	ed together?	
	in a my amped sommy commen		
✓	Dimensions of my solids:		
		Length= _	Width=
		Length= _	Width=
		Length=	Width=
		_ Length=	Width =
		_ Length=	Width =

APPENDIX 2 (cont'd)

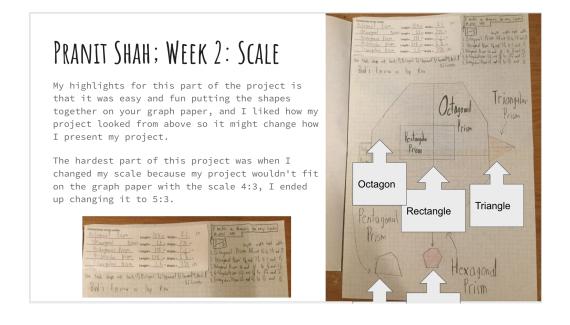
✓	I am thinking about using my circuit to
✓	And I will place the circuit:

SLIDE SAMPLES

SLIDE # 1 SAMPLE



SLIDE # 2 SAMPLE



SLIDE #3 SAMPLE

Kyle LeVangie: Week Three Appendages



- Cylinder
 Sphere
 Triangular pyramid
 Cylinder

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 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



Appendix 4A

Scale factor for my project will be:

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

Shape # 1 is a:

hex prism 3 dimensional

hexagon on drawing

Dimensions of the actual shape:

ength: 3.5"

Width: 4"

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

$$\frac{1}{.5} = \frac{3.5}{\times} \qquad \frac{1}{.5} = \frac{4}{\times} \\
\times = 1.75$$
 $\times = 2$

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

$$x = 2$$

Shape # 2 is a:

Rect prism3 dimensional

Rect___on drawing

Dimensions of the actual shape:

Length: 3,2"

Width: 2"

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

$$\frac{1}{.5} = \frac{3.2}{\times}$$
 $X = 1.6$
 $\frac{1}{.5} = \frac{2}{\times}$
 $X = 1$

SCALING

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

APPENDIX 4 (cont'd)

Shape #5 is a:	
3-1	D (on my creature)
as a	a polygon on my drawing
Dimensions of the actu	al shape: (in inches)
Length =	Width =
Scale Calculations: (2 p length and 1 for width)	-

Creativity and Effort Rubric

	Extending	Achieving	Developing	Beginning
Effort	 ✓ Complete ✓ Detailed ✓ Great pride in work ✓ Work is beyond what is expected ✓ Shows personal touch 	✓ Complete ✓ Detailed ✓ Pride in work ✓ Work is what is expected	✓ Some part not complete ✓ Little detail ✓ Work is a little less than what is expected	✓ Some parts not complete ✓ Little to no detail ✓ Work is not what is expected ✓ Project looks forced ✓ Lacks accuracy and/or clarity
Creativity	 ✓ 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 	✓ Some original ideas ✓ Visually appealing ✓ Good use of color, texture, shapes and spacing of materials	 ✓ 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. 	 ✓ 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	 ✓ Patiently completed ✓ All parts are well attached ✓ Well organized ✓ Clean and neat 	✓ Completed ✓ Parts are attached, but not securely ✓ Clean and neat ✓ Organized	✓ Completed in a hurry✓ Parts are wobbly✓ Work is a little messy	 ✓ Not completed ✓ Parts are falling off ✓ Not organized ✓ Messy work – not clean and neat

PERIMETER AND AREA

Perimeter – Polygon 1 Shape:	Area – Polygon 1 Shape:
Sketch your shape here and then determine the perimeter.	Sketch your shape here, show the formula you will use, and then show your work.
Mita on your drawing D -	Mita on your drawing A -
Write on your drawing P = Perimeter – Polygon 2	Write on your drawing A = Area – Polygon 2
Shape:	Shape:
Sketch your shape here and then determine the perimeter. Write on your drawing P =	Sketch your shape here, show the formula you will use, and then show your work.
Write on your drawing P =	Write on your drawing A =

APPENDIX 6 - part 2

Perimeter – Polygon 3 Shape:	Area – Polygon 3 Shape:
Sketch your shape here and then determine the perimeter.	Sketch your shape here, show the formula you will use, and then show your work.
Write on your drawing P =	Write on your drawing A =
Perimeter – Polygon 4	Area – Polygon 4
Shape:	Shape:
· 	·
Sketch your shape here and then determine the perimeter.	Sketch your shape here, show the formula you will use, and then show your work.
Write on your drawing P =	Write on your drawing A =

APPENDIX 6 - part 3

Perimeter – Polygon 5 Shape:	Area – Polygon 5 Shape:
Sketch your shape here and then determine the perimeter.	Sketch your shape here, show the formula you will use, and then show your work.
Write on your drawing P =	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!

tength: Width: Height:	Length:	Width :	Height:
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Surface Area	Volume
Formula:	Formula:
Write on your drawing SA =	Write on your drawing V =

TRIANGLES

TRIANGLE 1: TYPE OF TRIANGLE
SCALE CALCULATIONS:
TRIANGLE 2: TYPE OF TRIANGLE
SCALE CALCULATIONS:
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.	

APPENDIX 9 (cont'd)

Perimeter of Triangle #		
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.	
oneten it here. Formula you will be using.	compate 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.	

APPENDAGES

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 c	an write "same" below.
Height = Width (liameter) =
Scale calculations:	
Height:	Width:

APPENDIX 10 (cont'd)

Appendage #3 is a	·
If it is identical to another app	pendage, you can write "same as appendage #" below.
Height =	Width (diameter) =
Scale calculations:	
Height:	Width:
Appendage #4 is a	
	ppendage, you can write "same as appendage # _ " below.
	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)
coure carculations; (use the alamoter and propertion)
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: