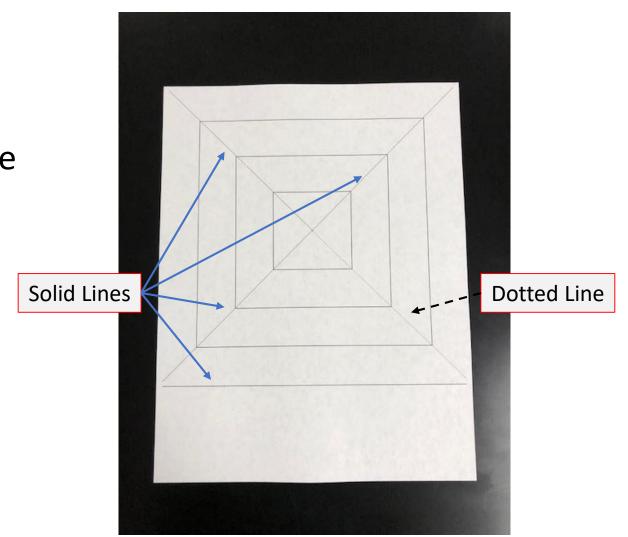
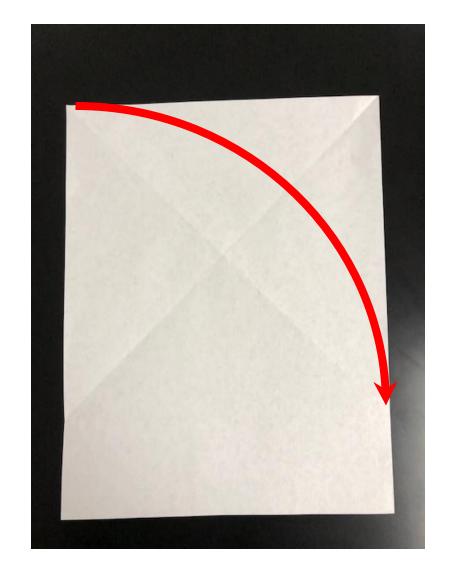
Ecological Pyramids Foldable

• Get a pyramid foldable sheet.

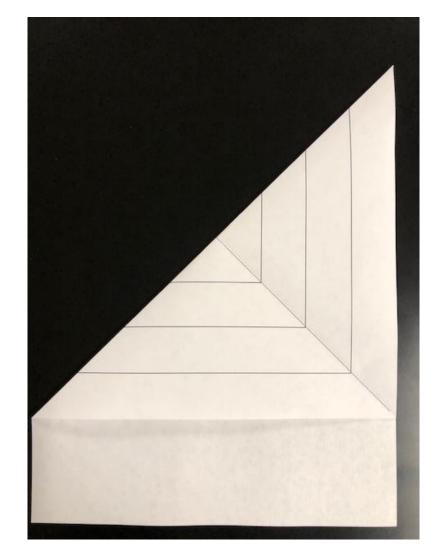
 Notice the difference between the solid lines and dotted line.

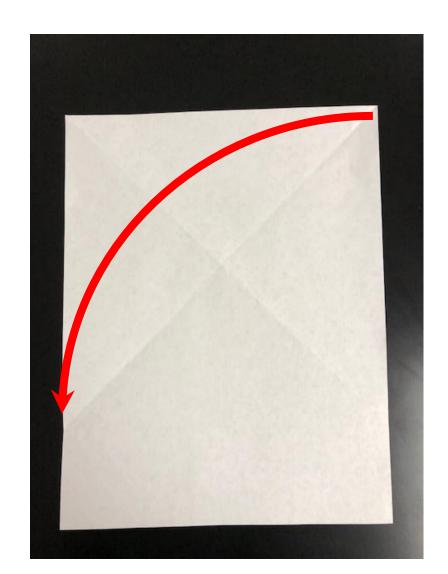


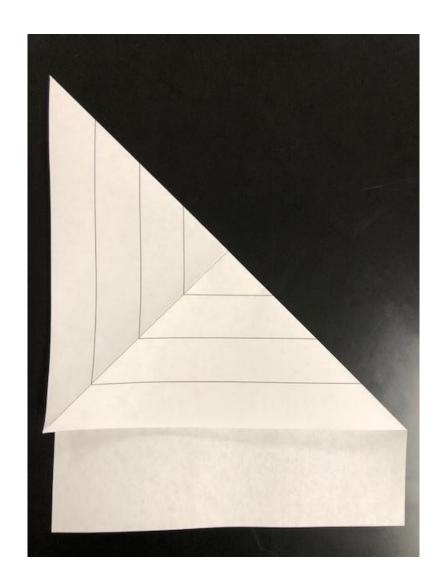
 Flip the page over and fold the upper left corner down to the right side of the page



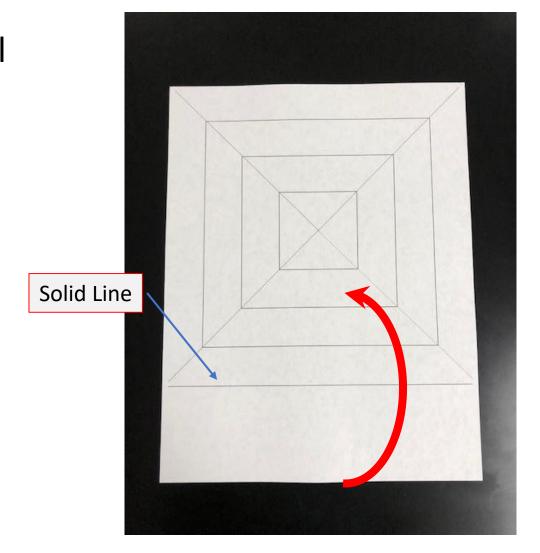
 Open up the paper and do the same thing from the upper right corner down to the left side of the page



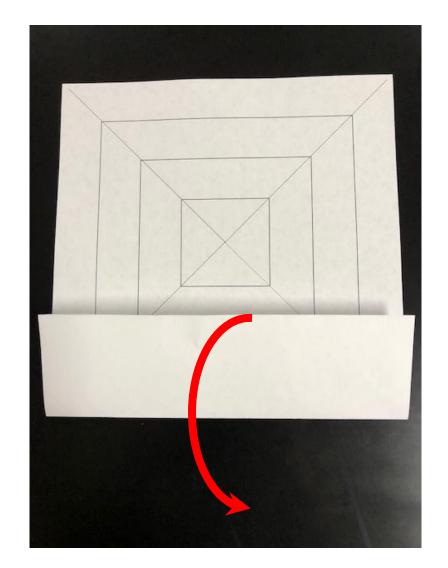




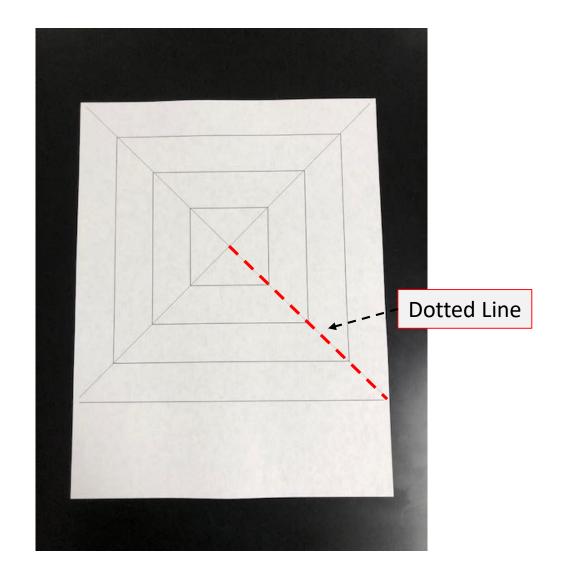
 Fold the flap up on the horizontal solid line



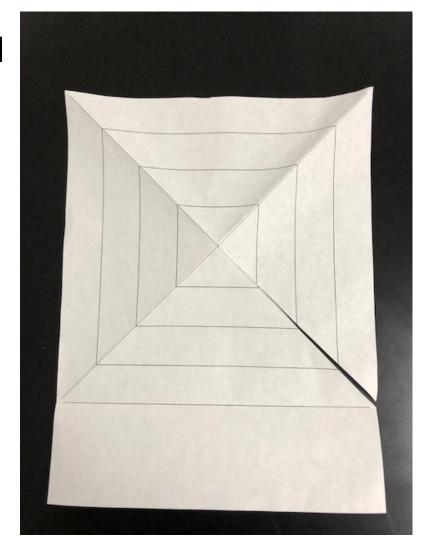
 Fold the flap back down and find a pair of scissors



 Find the dotted line and cut from the lower right corner to the center of the crossed lines



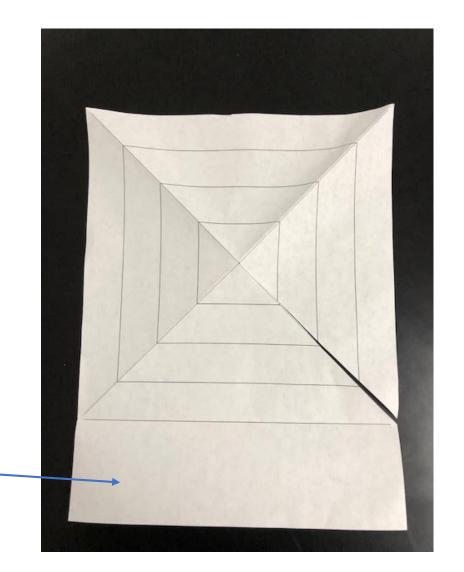
• When you've finished your sheet should look like the image to the right



Front Flap

• Define the following words on the front flap:

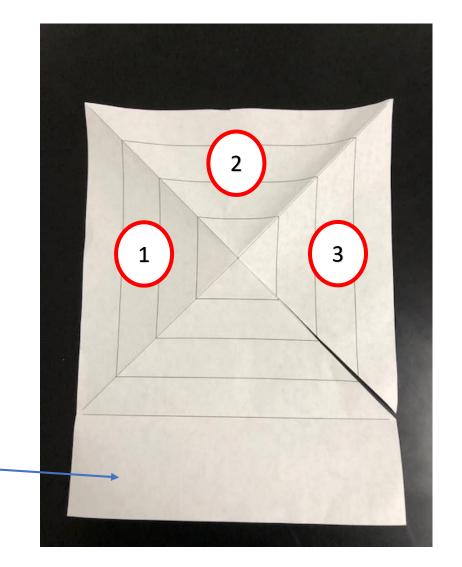
- 1) Energy pyramid
- 2) Biomass pyramid
- 3) Numbers pyramid
- 4) **Biomagnification**



Define words here

Pyramid Sides (Front)

- Energy Pyramid will go on......
- Biomass Pyramid will go on... (2)
- Numbers Pyramid will go on.. 3



Define words here

Energy Pyramid (1)

• Label trophic levels (Producers, Primary (1°) consumer, Secondary (2°) consumer, Tertiary (3°) consumer)

• Start with 100,000 J on the Producer trophic level (Write this energy on the lowest trophic level)

 Follow the 10% rule to complete the transfer of energy to the top tropic level

Biomass Pyramid (2)

• Label trophic levels (Producers, Primary (1°) consumer, Secondary (2°) consumer, Tertiary (3°) consumer)

Start with 5,000,000kg on the Producer trophic level.

- Follow the 10% rule to show the loss of biomass as you reach the top tropic level
 - This shows how much mass can be supported by the trophic levels below

Numbers Pyramid (3)

- Label trophic levels (Producers, Primary (1°) consumer, Secondary (2°) consumer, Tertiary (3°) consumer)
- Write **1,576,308 Plants** on the producer trophic section
- Write 145,576 Grasshoppers on the primary consumer trophic section
- Write 14,009 Mockingbirds on the secondary consumer trophic section
- Write 1,221 Red Tail Hawks on the tertiary consumer trophic level section.

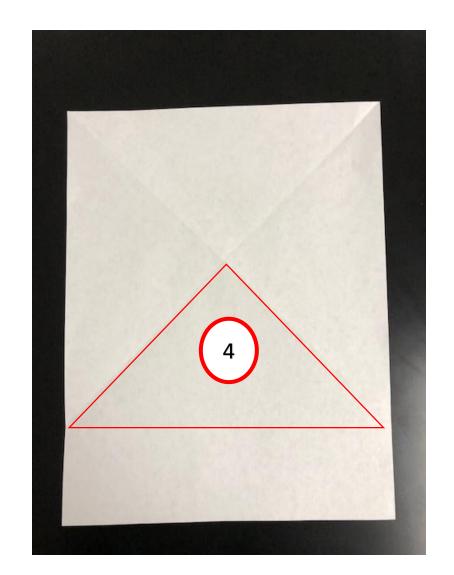
Does this numbers pyramid follow the 10% rule?

Explain why on the producer trophic level section. Circle your answer with a colored marker.

Pyramid Sides (Back)

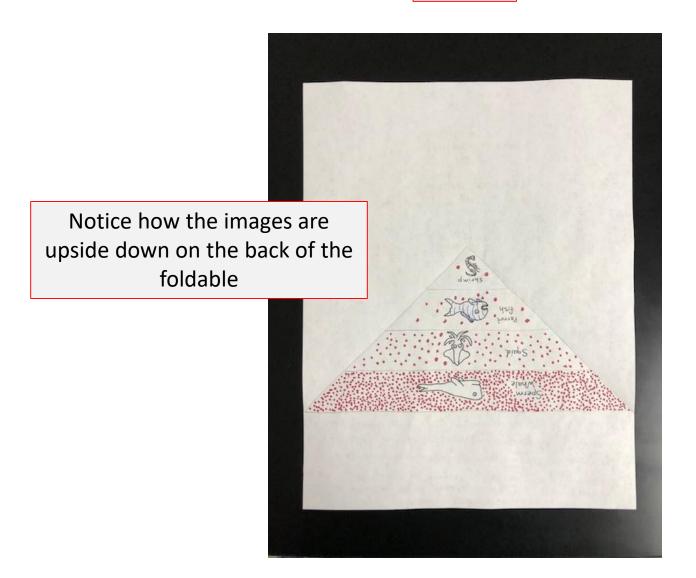
Flip the page over

Biomagnification will go on.....(4)



Pyramid Sides (Back)

Back



Biomagnification

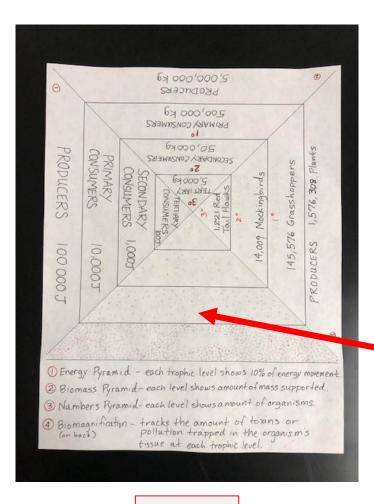
- Flip your paper pyramid folder upside down, so you are looking inside.
- On the smallest tip, vertex of triangle, draw a shrimp and place 2 colored dots around it.
- In the next largest trophic level draw a Parrot fish and place 15 of the same colored dots around it
- In the next largest trophic level above that draw a Squid and place 100 of the colored dots around it







Completed Pyramid Sheet



You will leave the first triangle of the pyramid blank on the front because the Biomagnification pyramid will bleed through from the back



Front

Back