

Names _____
 Date _____ Period _____

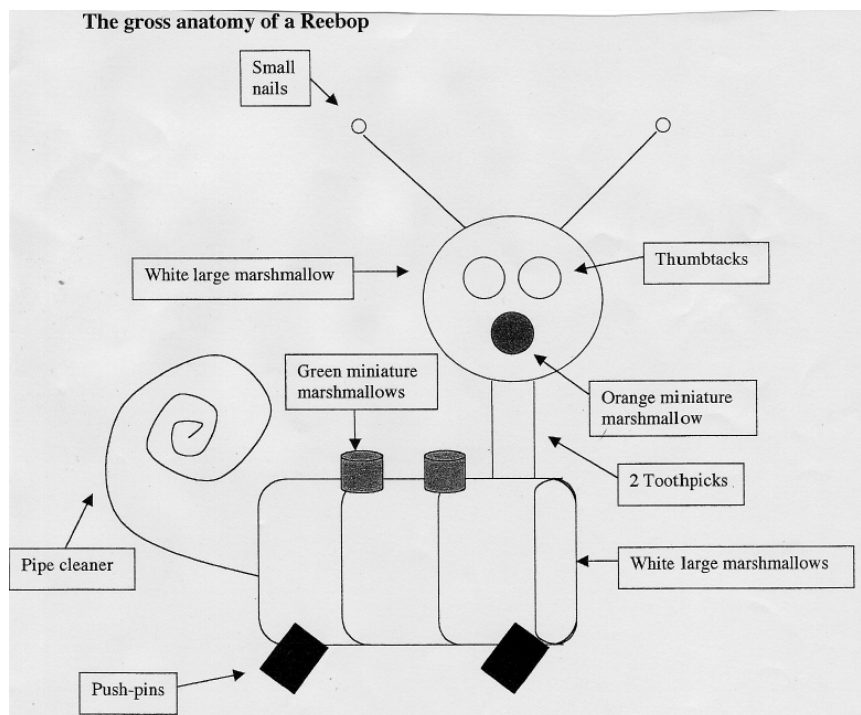
Reebop Baby Directions

Reebops are imaginary creatures. Look at your teacher's example to see what a mother and father Reebop look like.

1. You have 2 envelopes one for the father's genes and one for the mother's genes.
2. Take the papers out of the mother's envelope. Match the letter pairs; capital and lower case (Hint: They are the same size! There will be 14 pairs.)
3. Take each pair and hold them behind your back. Then your partner will pick one paper.
4. Write that letter in capital or lowercase down on the chart under mother.
5. Repeat 2-4 until you are done with the genes for the mother.
6. Do steps 2-5 for the envelope for the father. (Let your partner be in charge of this one!)
7. After you have finished all the gene papers, write the trait you will get in the chart using the key below.
8. Draw your reebop baby.
9. Create your reebop baby (one per group). Send one person to get the materials (Tacks, push pins, nails, toothpick and pipe cleaner) and the other person to get the marshmallows.
10. Once you have created your reebop, eat the marshmallows, throw away the toothpicks and return the other parts to be re-used.

Key to Reebop's traits

2 antenna=AA	2 green hump=MM	Red nose=QQ	Curly Tail=TTorTt
1 antenna=Aa	1 green hump=Mm	Orange Nose=Qq	Straight tail=tt
no antenna=aa	0 green hump=mm	Yellow Nose=qq	
2 eyes=EE or Ee	Blue legs=LL or Ll	2 body segments=dd	
3 eyes=ee	Red legs=ll	3 body segments=DD or Dd	



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Reebop Babies

Trait	Letter	Mother	Father	Genotype	Phenotype
Antennae	A or a				
Green humps	M or m				
Nose Color	Q or q				
Tail straightness	T or t				
Number of Eyes	E or e				
Color of Legs	L or l				
Number of Body Segments	D or d				

Class Reebop Data

FILL IN THE NUMBER of reebops found in your class with the following heritable traits:

Antennae

One ____

Two ____

None ____

Nose color

Red ____

Orange ____

Yellow ____

Humps

None ____

One ____

Two ____

Eyes

Three ____

Two ____

Segments

Two ____

Three ____

Tail

Curly ____

Straight ____

Leg color

Blue ____

Red ____

ANALYSIS OF REEBOP FINDINGS

1. Describe the phenotypes of Mom and Dad reebop.

2. How many different genotype possibilities are there for reebops?

3. How many different phenotype possibilities are there for reebops?

4. Do any two babies in your class have the same phenotypes of Mom and Dad?

5. Why do you see so few identical twins in your class' babies?

6. Unless you were born with an identical twin, why would you not expect anyone to be identical to you even if you had many siblings?

7. Why do some Reebop babies have traits that are not seen in either of their parents?

Draw your Reebop Baby here.