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Name		

Part A: Smiley Face Traits

(1) Obtain two coins from your teacher. Mark one coin with a "F" and the other with a "M" to represent each of the parents. The parents are heterozygous for all the Smiley Face traits.

(2) Flip the coins for parent for each trait. If the coin lands with heads up, it represents a dominant allele. A coin that lands tails up indicates a recessive allele. Record the result for each person by circling the correct letter. Use the results and the Smiley Face Traits page to determine the genotype and phenotype for each trait.

Trait	Fen	nale	M	ale	Genotype	Phenotype
Face Shape	C	С	C	с		
Eye Shape	E	e	Е	e		
Hair Style	S	S	S	S		
Smile	T	t	T	t		
Ear Style	V	v	V	v		
Nose Style	D	d	D	d		
Face Color	Y	у	Y	у		
Eye Color	В	b	В	b		
Hair Length	L	1	L	1		
Freckles	F	f	F	f		
Nose Color	R	Y	R	Y		
Ear Color	P	T	P	T		

Part B: Is it a boy or girl?

To determine the sex of your smiley face, flip the coin for the male parent. Heads would represent X, while tails would be Y.

	Female	Male	Genotype	Phenotype
Sex	X	X Y		

Part C: Create Your Smiley Face!

Use the Smiley Face Traits chart and your results from Part A to create a sketch of your smiley face in the box. Once you have completed the sketch, use the drawing tools in Microsoft Word to create your smiley face!

Two things to remember ...

√ Do not add color on the computer! Print a black and white copy and then use crayons or colored pencils to finish it.

√ Don't forget to give your smiley face a name! You will also need to include your name as parent and your class hour.

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Smiley Face Traits

Face Shape Circle (C)	Oval (c)	Nose Style Down (D)	Up (d)		
Eye Shape Star (E)	Blast (e)	Face Color Yellow (Y) Green (y)	Eye Color Blue (B) Red (b)		
Hair Style Straight (S)	という (s) ではない (s) ではない (s) ではない (s) にない (s) に	Hair Length Long (L) Short (l)	Freckles Present (F) Absent (f)		
Smile Thick (T)	Thin (t)	Nose Color Red (RR) Orange (RY) Yellow (YY)	Ear Color Hot Pink (PP) Purple (PT) Teal (TT)		
Ear Style Curved (V)	Pointed (v)		ex, the flip the coin for Heads equals X and tails		
			XX - Female - Add pink bow in hair XY - Male - Add blue bow in hair		