Name:			Date:	Period:			
			Genetics wi	ith a Smil	e		
Part A: Smiley Face Tra	aits						
		ner. Choose	which partne	r will repr	esent the "Female" and wl	nich partner will	
represent the "Male". T	he parents a	re heterozy	gous for all th	e Smiley F	ace traits.		
					eads up, it represents a do		
· ·					person by circling the cor		
					e the genotype and pheno		
Trait	Fem		Ma		nake sure that you use the Genotype	Phenotype	
Face Shape	С	С	С	C	Genotype	Тиспосурс	
Eye Shape	E	e	E	e			
Hair Style	S	S	S	S			
Smile	Т	t	Т	t			
Ear Style	V	V	V	٧			
Nose Style	D	d	D	d			
Face Color	Υ	У	Y	у			
Eye Color	В	b	В	b			
Hair Length	L	1	L	I			
Freckles	F	f	F	f			
Nose Color	R	r	R	r			
Ear Color	Р	Т	Р	Т			
Part B: Is it a Boy or a							
	f your smiley	face, flip th	e coin for the	male pare	ent. Heads represents an X	Callele and tails	
represents a Y allele. Chromosome #23	Female		Ma	Male Gen		Phenotype	
Cinomosome #25	remaie		Iviaic		Genotype	Thenotype	
Sex	Х		Х	Υ			
Part C: Create Your Sn	•						
Use the Smiley Face Tra	=		•	Baby N	lame:		
results from Part A to create a sketch of your Smiley							
Face Child in the box. Don't forget to give your smiley face a name!							
Answer the following:							
1) Why was the Male in	your group t	he only ind	ividual				
to flip a coin for the sex of your Smiley Face?							

2) How does a dominant trait result in offspring?

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)	Curly (s)	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 eads equals X and tails

XX - Female - Add pink bow in hair XY - Male - Add blue bow in hair