Rikini	Rottom	Constice	2

Name			

Use your knowledge of genetics to complete this worksheet.

1. Use the information for SpongeBob's traits to write the phenotype (physical appearance) for each item.

Characteristic	Dominant Gene	Recessive Gene
Body Shape	Squarepants (S)	Roundpants (s)
Body Color	Yellow (Y)	Blue (y)
Eye Shape	Round (R)	Oval (r)
Nose Style	Long (L)	Stubby (1)

(a) LL	(e) Rr
(b) yy	(f) ll
(c) Ss	(g) ss
(d) RR	(h) Yy

2.	U٤	se the	inf	ormati	on i	in t	he c	hart	in	#1	l to	o wr	te 1	the	genot	type	(or	geno	(types	) f	or eacl	ı trai	ıt l	oel	ow
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(a) Yellow body	(e) Stubby nose
(b) Roundpants	(f) Round eyes
(c) Oval eyes	(g) Squarepants
(d) Long nose	(h) Blue body

3	Determine	the	genotynes	for 6	ach	ueina	the	informat	ion	in ·	the	chart	in	#1
э.	Determine	ıne	genotypes	TOL 6	eacn	using	une	ımormai	ion .	$^{1}$ n	ıne	cnart	ın ·	#l.

(a) Heterozygous round eyes	(c) Homozygous long nose
(b) Purebred squarepants	(d) Hybrid yellow body

4. One of SpongeBob's cousins, SpongeBillyBob, recently met a cute squarepants gal, SpongeGerdy, at a local dance and fell in love. Use your knowledge of genetics to answer the questions below.

(a) If SpongeGerdy's father is a heterozygous squarepants and her mother is a roundpants, what is her genotype? Complete the Punnett square to show the possible genotypes that would result to help you determine Gerdy's genotype.	
What is Gerdy's genotype?	

(b) SpongeBillyBob is heterozygous for his squarepants shape. What is his genotype? \_\_\_\_\_

(c) Complete the Punnett square to show the possibilities that would result if Billy Bob & Gerdy had children.

