ikini	Botto	om G	enetic	c #1					Sk.	90	2
Scienti this cor each qu	sts at Bikir mmunity.  U iestion.	ni Bottom h Use the info	ave been in ormation pr	nvestigati Povided an	ng the gen Id your kno	etic makeup o owledge of gei	of the organisms netics to answer				W.S.
		•					R homozygous (	Ho).			-
11	Bb	00	гт	111	aa			K		-	Con
Dd	ff						purebred?		-	- 40	<u> </u>
	2	2. Dete <b>Yellow</b>	rmine the body color	phenotype is domin	e for each <b>ant to blu</b>	genotype usir e.	ng the informati	on provide	d about Spor	ngeBob.	_
~ L	7	yy	shane is	dominant	y		YY				
55						( 0 : 1:					
3. For e	each pheno head (T) is	type, give t	ne genoty:	oes that a	ss re possible	e for Patrick.					
Tall = _				Short = _			·				1
	ody color (f										
Pink bo	dy =		У	ellow bod	y =						3
The stud	-	organisms in				-	lled		-		
charact	teristic or _		of an o	organism s	uch as heig	jht and use the	information to p	oredict wha	t the organism	n's children	will be
like. If	the height	characterist	ic has two	different fo	orms (tall a	and short) then	it has two		Many tim	es one of th	hese
forms	of the gene	is more pov	verful than	the other s	so it is calle	ed the	allele. '	The form of	f the gene tha	at gets cove	red by
the upp	percase is th	ne		allele. Lett	ers of the	alphabet are cl	nosen to symboliz	e character	istics such as	the letter "	t" or
"T" for	the height	gene. It ma	y seem odd	to choose	"t" for the	height gene b	ut most geneticis	ts choose a	letter that sy	mbolizes th	ıe
domina	int form of	the gene ("I	" for tall in	this case)	. Organism	ns inherit a gen	e from each of th	heir parents	and the two	letter comb	ination
represe	ents the orga	anism's type	s of genes	or	·	. If the inherit	ed letters are bot	th lowercase	or uppercase	e (hh or HH	) then
the org	janism has a	a		genotype.	One lower	case letter and	one uppercase le	etter combin	e for a		
genoty	pe. Your ge	enes determi	ne how you	develop a	nd this can	sometimes be	physically seen i	n your		·	
i	· <del></del> ·	· ·	Word	Bank:	Allele,	Dominant	, Genetics, G		• <del></del> • • e,		
:			Heteroz	ygous,	Homozy	gous, Phe	notype, Rec	essive, 1	'rait		
-											_

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