7th Grade Science Review

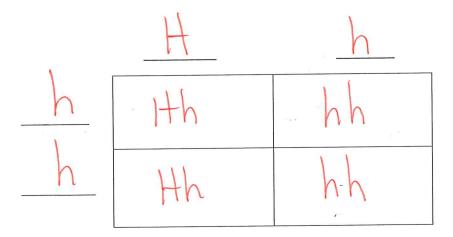
Scientific Method Steps:

1. Problem 2. Hypothesis 3. Materials 4. Procedures 5. Data and Results 6. Conclusion

sto	mach	trade-	off sm	ıall qı	uantitative	contro	ol respir	atory	large	blood	nutrients
org	anisms	cells	organ s	ystem	organs	tissues	cell men	nbrane	genet	ic respire	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
do	minant	mutat	ion t	wo as	sexual e	iversity	<u>extinc</u> tion	n ł	nalf bil	lion	
1.	A well d	esigned	l experin	nent co	nsists of a	contr	o , a.re	eprodu	cible prod	cedure, a lar	ge
	sample	size, an	d multip	le trials	•			r. c T			
2.	Qualitat	ive dat	a looks a	t obser	vable char	acteristics	s, quan	titat	data	measures a	nd
	counts.						U			^	
3.	Experie	ncing si	de-effect	ts of yo	ur cold me	dicine is a	ın example	of a	rade	-off	•
4.	Food tra	avels fro	om your	esopha	gus to you	r_50	<u>mach</u> to	your 🛓	Small	intestine to	your
			inte					,			
5.	Absorbi	ng oxy	gen is an	import	ant functi	on of you	resp	irato	ry	_ system.	
6.										ygen, and w	aste.
7.	The hun	nan boo								the <u>cel</u>	S,
	1:	SSUR		05	gan		org	an S	system	25	
8.	The Ce	elln	nembra	ane	allows su	bstances	to pass in a	and out	of the ce	II.	*
		_	•		\sum are ma						
10.	The nuc	leus co	ntains al	l of the	ge	retic	naterial of	a cell.			
							spire				
12.	The offs	pring o	f sexual	reprodu	action rece	ives <u>ha</u>	1 of its	genetic	materia	I from each	parent.
13.	There a	re 🥏	copi	es of ea	ach chrom	osome in	most huma	an cells.			
14.	The	mina	nt co	ondition	of a char	acteristic	is represen	ited by	RR and R	r.	
15.	The offs	pring o	f as	exua	repro	duction is	identical t	o the pa	arent exc	ept when th	iere is
	genet	ic <u>Mu</u>	tation	<u> </u>							

16. Bart is known for his yellow hair (H), w	vhich is dominant over blue ha	ir(h). If he is
heterozygous for his yellow color hair a	and marries a woman with blue	e hair, what type of hair
might their offspring have?	n1.	1.1
A. List the genotypes for each: Heteroz	ygous Yellow hair:	Blue Hair:hh

B. Complete the Punnett Square to show the possibilities that would result if Bart had children with the blue haired woman.



C. What are the chances of offspring with round eyes? 50%.

D. What are the chances of offspring with an oval eye shape? 50 /.

17. Someone is looking for their lost friend at the mall. They ask for your help and give you this description.

Classify the data below as either quantitative or qualitative data. Fill in the T-Chart.

Height:	4'11"	
Weight	90 lbs	
Hair:	long pony tail	
Jacket:	red	
Eyes:	Hazel	

Quantitative	Qualitative
4'11" 90 lbs	long pony tail red jacket hazel eyes

18. Two cousins have a serious type of skin cancer. They are informed that they could be part of a clinical trial for a promising new medication. They want to join the trial, but they know that there are trade-offs for participating. What would be some of the trade- offs if they were to be part of the trial? Explain why they are trade-offs.

You could get place bo, and not get any treatment
treatment
you could get side effects from treatment
Treatment could be ineffective
Treatment could not be safe

19. Read the following experiment. Explain the good factors of a well designed experiment it includes,
and the factors it doesn't. How would you improve this?
Bart and Lisa are sick with the flu. Marge wants to see if a certain over the counter medicine works. She
decides to give the medicine to Bart and use a home remedy for Lisa. She tries this for six days.
Everyday Bart and Lisa get the same food for breakfast, lunch and dinner. She gives Bart the medicine
three times a day. She gave Lisa herbal tea when she was thirsty. She took their temperatures every
day and recorded their progress. At the end, both children were better.

Textbook Scavenger hunt Use your text book to find the answers to the
following questions:
20) In Unit B find the following answer: Your heart is made up of chambers that work as 2 pumps The right side of your heart acts as a pump that pumps blood to your The side of your heart acts as a another that pumps blood to all that pumps blood to all that pumps blood to all that pumps blood to all
21) Your <u>digestive</u> system is responsible for both <u>mechanical</u> and <u>chemical</u> breakdown. What page did you find this on?
breakdown, <u>acid 5</u> in your digestive system break down food into even <u>Smaller</u> particles. What page did you find these answers on?
23) Using the diagram below, draw arrows that show the direction in which blood flows. What page did you find this diagram on? Aurta Fulmonary Arrivm Right Left Ventricle 24) Using the diagram above, label the following parts: Aorta, Right Atrium, Left Atrium, Right Ventricle, Left Ventricle, Pulmonary Artery
25) Arteries carry blood <u>away</u> from your <u>heart</u> . Most artieries carry <u>oxygen</u> rich

26) Veins carry blood back to your heart. Most veins carry blood with well of oxygen and levels of Veins carry blood with well of oxygen and levels of What page did you find these answers on?
27) The human heart has that help blood flow in direction. What page did you find these answers?
28) With every breath you take, you <u>inhale 0</u> and <u>exhale C0</u> . Your body uses the to get energy from food. What page did you find these answers on?
29) Give 5 examples of how the shape (structure) of the heart relates to each of their functions (jobs). What pages did you find these answers on?
See ShudyGuide