AP Biology 008 – Reproductive Isolation and Speciation Video Review Sheet

www.bozemanscience.com/speciation

1.	Describe the simple experiment to show speciation after just 8 generations:
2.	To start the process of speciation, first there has to be some sort of:
	a. Name the three options:
3.	Eventually this creates reproduction isolation, where you eliminate
4.	Geographic Isolation: isolation due to where you
	a. Allopatric: two groups that live in
	b. Sympatric: live in the same
	c. Describe the example of Allopatric Speciation: Meadowlarks
	d. Describe the example of Sympatric Speciation: plants have mistakes in
	e. Pre-zygotic Isolation: i. Temporal – Why don't the toads normally breed together even though they could make fertile offspring?
	ii. Mechanical – Why don't the snails interbreed?
	iii. Behavioral – Why don't the Meadowlarks interbreed?
	f. Post-zygotic Isolation: i. Zygote Mortality Example:
	ii. Hybrid Sterility Example:
5.	Briefly describe the Reproductive Isolation Example with plants on either side of the Great Wall of China –
6.	Speciation Rate: a. Polyploidy – very speciation due to a mistake in
	b. Phyletic Gradualism – the belief that speciation occurs
	c. Punctuated Equilibrium – belief that speciation occurs quickly due to