AP Biology 006 – Phylogenetics Video Review Sheet

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1.	Define phylogenetics:		
2.	The goal of phylogenetics tree is:		
3.	Define speciation:		
4.	Define morphological:		
5.	Molecular: How we use to figure out who is related to whom.		
6.	Whenever you have a tree it suggests:		
7.	Morph	Morphology example: Heart – tracing it through time:	
	a.	In fish: there are chambers – single loop	
	b.	In amphibians: chambered heart. They also pick up oxygen using their	
		The pressure issue is no longer but the problem is that there is a of blood. (Not a problem for amphibians but would be if you were more active/life on land)	
	C.	Reptiles have a to divide their three-chambered hearts.	
	d.	Birds/Mammals probably both evolved thechambered hearts independently.	
8.	Molecular data: using DNA – looking at the code		
9.	Cladogram: uses a clade. Define clade:		
Do develop a cladogram you use molecular/DNA evidence and synapomorphies. Define synapomorphies:			
11. Goal is to create monophyletic groups – contains all the			