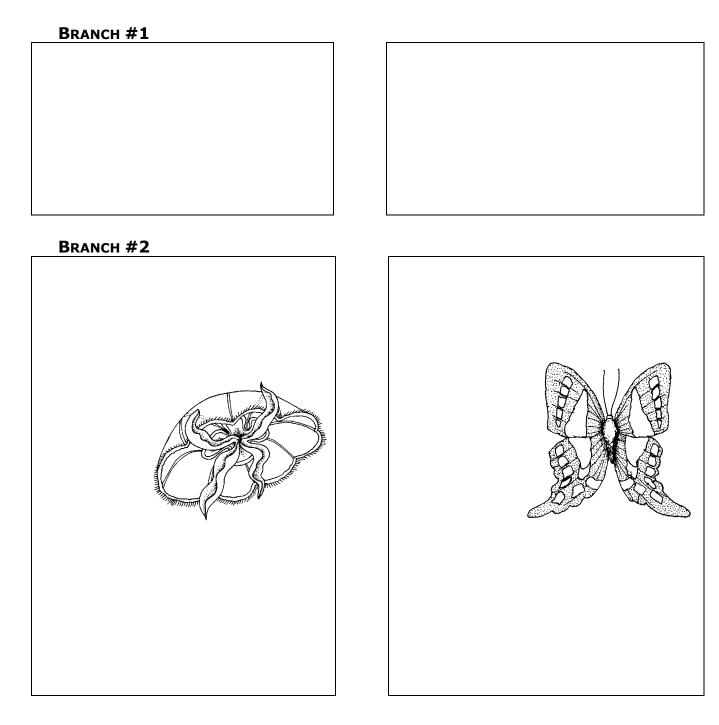
NAME		
DATE	ł	HOUR

KINGDOM ANIMALIA FOUR KEY EVOLUTIONARY BRANCHES

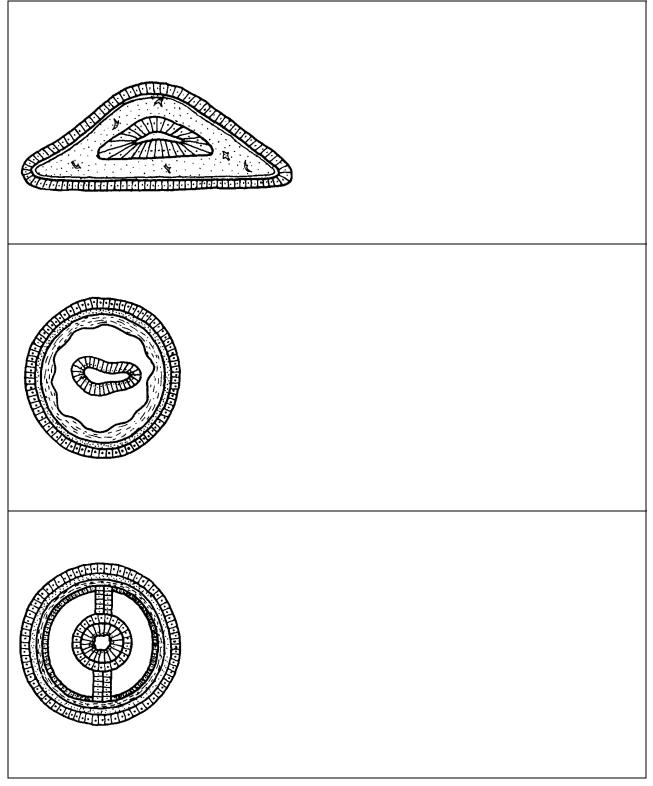


AP BIOLOGY

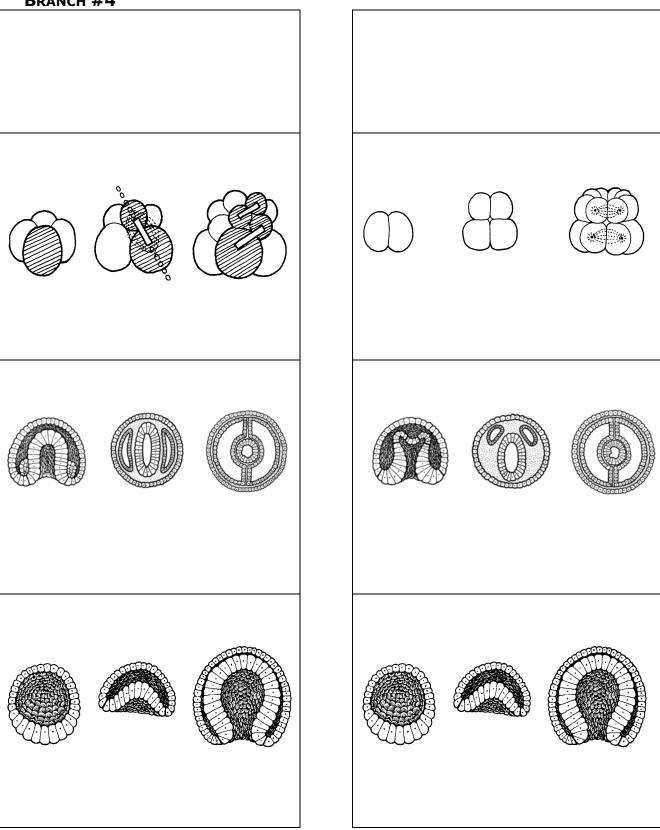
ACTIVITY #6

DIVERSITY OF LIFE

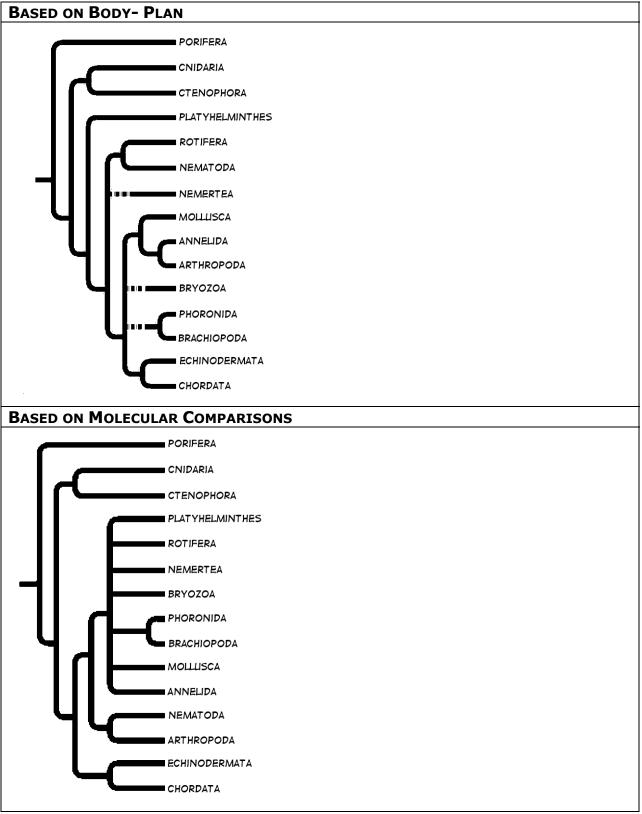




BRANCH #4



ANIMAL PHYLOGENY



QUESTIONS:

Match the description or definition with the	correct te	rm.
Lack true tissues	A. Acoe	lomate
True tissues	B. Bilat	eria
Radial symmetry	C. Coel	omate
Bilateral symmetry	D. Dete	rminate Cleavage
Two germ layers	E. Diplo	blastic
Three germ layers	F. Enter	rocoelous
solid body; without a	G. Eum	etazoa
body cavity Body cavity that is not completely lined with mesoderm	H. Inde	terminate Cleava <u>c</u>
Body cavity completely lined with mesoderm	I. Para	zoa
Fate of each cell determined	J. Pseud	docoelomate
early in development Cells produced by early cleavage retain capacity to develop into complete embryo	K. Radi	ata
Solid mass of cells split to form	L. Schiz	ocoelous
Mesoderm forms form outpocketings of archenteron	M. Tripl	oblastic

3. Identify the germ layer (**ecto**derm, **endo**derm, or **meso**derm) describe in each of the following.

_____ Innermost germ layer

_____ Covers the surface of the embryo

_____ Middle layer

 Gives rise to covering of animal and to the central nervous system in some phyla
 Forms the muscle and most other organs between the gut and outer covering
 Lines the primitive gut (archenteron)
 Gives rise to the digestive tract and its outpocketings (liver and lungs)

4. Use the choices below to complete the following table comparing the major animal phyla.

Tissue Complexity:Parazoa or EumetazoaGerm Layers:DNA (does not apply), two, or threeCoelom:DNA, Acoelomate, Pseudocoelomate, or CoelomateEmbryonic Development:DNA, Protostome, or Deuterostome

Phylum	Tissue Complexity	Germ Layers	Coelom	Embryonic Development
Porifera				
Cnidaria				
Platyhelminthes				
Nematoda				
Mollusca				
Annelida				
Arthropoda				
Echinodermata				
Chordata				

5. Identify each of the following as true of **P**rotostomes or **D**euterostomes.

Coelomates	Spiral cleavage
Radial cleavage	Determinate cleavage
Indeterminate cleavage	$_$ Blastopore \rightarrow mouth
Blastopore → anus	Schizocoelous
Enterocoelous	

6. Identify the group of mammals represented by each of the following.

A. Eutherians B. Marsupials	C. Monotremes
Lay eggs	
Pouched animals	
Placentals	
Platypus, echidna	
Kangaroo, opossum	
Lion, tigers, bears, humans	