Student name: **Student name:** _____ **Student ID:** _____ **Lab section:** _____

SAVE AS XXXXXXX.xlsx (XXXXXX=student ID) then submit your TA by email

Coded Matrix

		1	2	3	4	5	6	7	8	9	10	11	12	
	Characters→	**fins or limbs**	**Jaws**	**Lungs and Derivatives**	**Skeletal Tissue**	**No. of digits on hind limb**	**Gizzard**	**Sacral Vertebrae**	**Amnion**	**Occipital Condyles**	**Adult Neph. system**	**Hair or Fur**	**Shell**	
	Lamprey	0	0	0	0	0	0	0	0	0	0	0	0	**SG**
A	Crocodile/aligator	1	1	1	1	1	1	2	1	1	1	0	0	**A**
B	Armadillo	1	1	1	1	2	0	2	1	2	1	1	1	**B**
C	Frog	1	1	1	1	2	0	1	0	2	0	0	0	**C**
D	lizard	1	1	1	1	2	0	2	1	1	1	0	0	**D**
E	monkey/Gorilla	1	1	1	1	2	0	2	1	2	1	1	0	**E**
F	Perch	1	1	1	1	0	0	0	0	0	0	0	0	**F**
G	Pigeon	1	1	1	1	1	1	2	1	1	1	0	0	**G**
H	Shark	1	1	0	0	0	0	0	0	0	0	0	0	**H**

Attention: Characters with several derived states must be coded with these values:

Character	Observation	code
# of digits	0	0
	4	1
	5	2

Character	Observation	code
# of sacral vertebrae	0	0
	1	1
	2+	2

Character	Observation	code
# of temporal fenestrae	0	0
	1	1
	2	2

Character	Observation	code
occipital condyle	0	0
	1	1
	2	2

Character	Observation	code
Nitrogenous waste	Ammonia	0
	urea	1
	Uric acid	2