

What did the T. Rex taste like?

Please go to the following link:

<http://www.ucmp.berkeley.edu/education/explorations/tours/Trex/navigation.html>

And select “go to the beginning”

The task: Examine the questions below. For at least 2 of the questions:

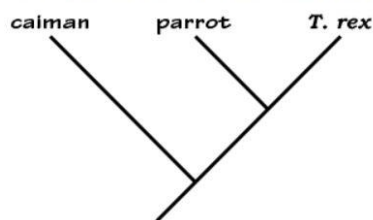
- Decide if it is possible to answer the question with the data provided (the cladogram and data tables)
- If it is not possible, what information is needed to be able to answer the question?
- If it is possible, what kind of hypothesis would you make? What is the evidence for your statement? In your justification, make sure that you include information about common ancestors and shared inherited features. What other evidence would you look for that would support or refute your hypothesis?

Questions:

1. Did T. rex have an amniotic egg?
2. Was T. rex warm-blooded or cold blooded?
3. Could T. rex have had feathers?
4. Did T. rex have colour vision?
5. How many chambers were there in T. rex’s heart?

Cladogram

Below is a simple cladogram indicating the proposed relationship among the caiman, parrot, and *T. rex*.



The following table indicates the presence or absence of 11 additional features for the caiman and the parrot.

	caiman	parrot	T. rex
color vision	+	+	
warm blooded	0	+	
feathers	0	+	
egg to young	+	+	
scaly skin	+	+	
melanin pigment in skin	+	+	
amniotic egg	+	+	
few glands in skin	+	+	
hole in hip socket	0	+	
3-chambered heart	+	0	
4-chambered heart	0	+	