Phylogeny

By Edward Awad

Out of Class | **In Class (Instructor)** | **In Class (Students)**

Begin Here.

Students are given a sheet with the topics to be covered, including key concepts, learning outcomes, and assigned readings.

Students:

- Do assigned readings and watch a video about phylogenetics
- Do a quiz through Moodle to test what they have learned from the video and readings

01

Instructor:

- Reviews material from the pre-assigned readings at the start of the class and answers student questions
- Introduces the activity and describes the first phylogeny scenario

Students:

- Get into groups of 2-3
- Groups analyze the scenario information on their handout
- Each group constructs their phylogenetic tree on a Smartboard

02

Groups:

- Compare their phylogenetic trees with other groups in the class
- Answer questions based on their phylogenetic trees
- Recommended time: 20 minutes for the 1st scenario, 15 minutes for the 2nd scenario, and 10 minutes for the 3rd scenario

03

Instructor:

- Regroups the class to answer student questions
- Proceeds with clicker questions

Students **individually** answer clicker questions (recommended time 15 minutes).

04

If the majority of the class answers incorrectly on a particular question, the instructor takes up that question with the entire class.

Students are given a set of questions to practice related to the entire evolution unit.

Answers are not assessed by the instructor

	Individual Work
	Work in Groups
	Whole Class
	Reading
	Writing
	Problem Solving
	Discussion
	Peer-Review
	Clicker
	Quiz