

Online Phylogenetic Tree

Student questions

Use the [Online Phylogenetic Tree](#) on Learn.Genetics.utah.edu to fill in the information below and answer the questions.

1. Select two organisms with very different traits (e.g., moss and chimpanzee).

Organisms: _____ and _____

Number of genes in common: _____

2. Select two organisms that have more traits in common (e.g., chimpanzee and cow, or *S. aureus* and *E. coli*).

Organisms: _____ and _____

Number of genes in common: _____

3. In general, do organisms that have more traits in common also share more genes? (Test your answer by choosing more organism combinations.)

4. Select two distantly related organisms (e.g. fruit fly and cow).

Organisms: _____ and _____

Number of genes in common: _____

5. Select two closely related organisms (e.g. dolphin and cow).

Organisms: _____ and _____

Number of genes in common: _____

6. Do more closely related organisms tend to have more genes in common? (Test your answer by choosing more organism combinations.)