

Exercise 1: Phylogenetic tree worksheet

Answers to questions:

1.1 In the unrooted tree in Figure 2, which organisms are most distantly related? Which are most closely related?

1.2 In the rooted tree in Figure 2, which organisms are most distantly related? Which are most closely related?

1.3 For bacteriophage analysis, would you use an unrooted or rooted tree? Why?

1.4 Take a screen shot of your tree and paste in your worksheet.

1.5 Which branches are you the most confident in for the figure above? Which are you least confident in?

1.6 Which branch are you the least confident in and what conclusion can you draw from this branch?

1.7 Is the tree above rooted or unrooted? How were you able to determine that it is rooted or unrooted?

1.8 Which two related organisms have the shortest branch length, and what does this indicate?