Alternative Instructor's 5 Step Resource (Six Species)

If you have elected to use the smaller sample set, then this resource will help see a potential phylogeny your students may create:

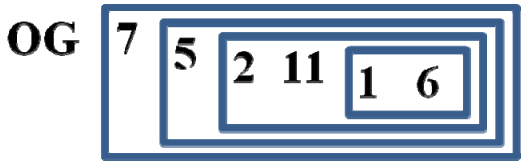
Step 1: Data Matrix

	A	D	F	G	H	I	J	K
Species 1	1	1	0	1	0	1	0	1
Species 2	1	0	1	1	0	1	0	0
Species 5	1	0	0	0	1	1	0	0
Species 6	1	0	0	1	0	1	0	1
Species 7	0	0	0	0	0	1	0	0
Species 11	1	0	1	1	0	1	1	0
Out Group	0	0	0	0	0	0	0	0

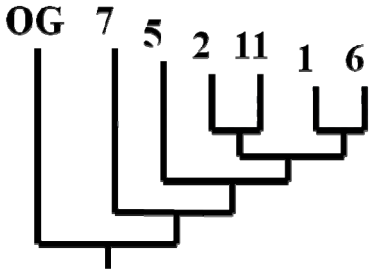
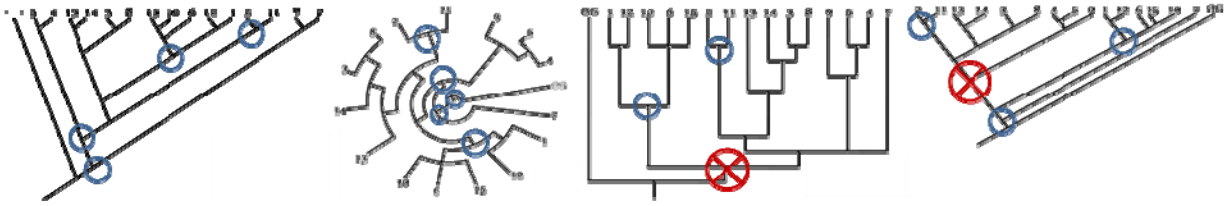
Step 2: Reorganized Data Matrix

	I	A	H	G	F	J	K	D
Species 1	1	1	0	1	0	0	1	1
Species 6	1	1	0	1	0	0	1	0
Species 11	1	1	0	1	1	1	0	0
Species 2	1	1	0	1	1	0	0	0
Species 5	1	1	1	0	0	0	0	0
Species 7	1	0	0	0	0	0	0	0
Out Group	0	0	0	0	0	0	0	0

Step 3: Venn Diagram



Step 4 & 5: Adding Branches and Rooting Tree



These examples show how the developed phylogeny compares to some of the trees presented to the students: