Macro analysis is a powerful tool for revealing descending fifth patterns in music. Usually the goal is to guide the analyst towards insights into the harmonic structure of existing compositions. This article demonstrates the ways in which macro analysis can also serve a generative function through the development of models that students can apply to the creation of their own musical compositions, leading to rich connections between the students' compositions and the works of their predecessors. The insights that students gain from these connections remain long after they have completed the music curriculum.