

1145-VK-140

Aaron Carl Smith* (smithaz12@scps.k12.fl.us), Seminole County Public Schools,
Assessment and Accountability, 400 East Lake Mary Blvd, Sanford, FL 32773. *Using Directed
Acyclic Graphs to Improve Classroom Instruction.*

What is the best order to present material in the classroom? Directed acyclic graphs (DAG) provide a method for answering this question using data instead of opinion. In such a model, parent nodes are prerequisite concepts for child nodes. DAG models can help teachers identify concepts that are choke points for many other concepts; such material must be mastered for success later in the course. The graphs show concepts that can be piggybacked onto other material so that it does not need to be presented on its own, thus improving classroom time usage. Furthermore, DAG models identify which material should be revisited when students struggle. The talk will present models learned on data from district wide standardized tests. (Received August 08, 2018)