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**Mark Saul\*** (marksaul@earthlink.net). *Backyard Mathematics*.

Six students, ages 9 through 11, sit in a backyard, constructing polyhedra out of toothpicks and jellybeans. Another group, around a kitchen table, play a game based on combinatoric principles. Yet another group is answering a set of questions about exponential growth, laid out in a story in which they themselves are the characters.

These, and other examples of math circle activities, will be demonstrated, activities which bring mathematics to students in contexts where they may not expect it, and using motivations that are not those of the classroom. (Received September 20, 2006)