

Teaching Engineering with LEGO® DUPLO

Kindergarten classes in Greenville, South Carolina learn about Engineering.



In the kindergarten classes at A.J. Whittenberg Elementary in Greenville, South Carolina, DUPLO bricks are helping students learn about problem solving and engineering. The students act as real engineers as they go through the problem-solving process: after some playtime to warm up, they plan, build, test, and evaluate. According to Tom Roe, curriculum director for A.J. Whittenberg, allowing the students to use the DUPLO bricks to actively learn about engineering is very important for learners of their age. Using teamwork to build a solid foundation for problem solving gets children very excited and leaves them feeling very successful at the end of a challenge.

Adult engineers from the community often come into the classroom to work with students and participate in the challenges. They perform trials in groups where they go through the problem-solving process – they set up a plan, build with DUPLO bricks, and test their builds using set criteria. After the builds, everyone gathers around and watches closely as the groups go through the testing phase. When the build succeeds, all hands go in the air as everyone – students, teachers, and engineers – cheer and applaud! “It’s great to see everyone so involved while learning,” said Roe.



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