



Exploring Design & Engineering™

- Three year development and dissemination project
- Funded by NJ Commission on Higher Education
- Extended work of CD&E into the upper grades



Objectives

- Develop contextual learning units
- Provide professional development to middle and high school Technology Education Teachers
- Integrate mathematics, science and technology through design and engineering approaches



Units developed

- Pack It Up, Ship It Out
- Community by Design
- The Big Thrill
- Xtreme Automata
- Materials & Processes
- Ready, Set, Sail
- Digital DJ
- Senior Capstone
- Designing with Pro DESKTOP



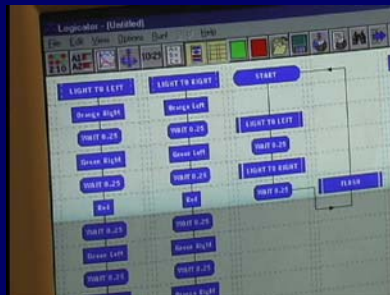
Professional Development



- 30 workshops were offered
- 508 New Jersey teachers attended

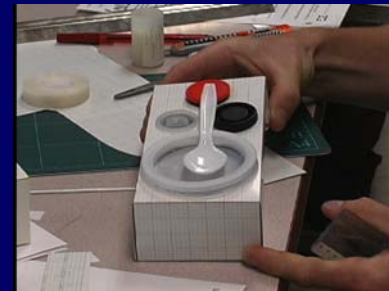


Digital DJ



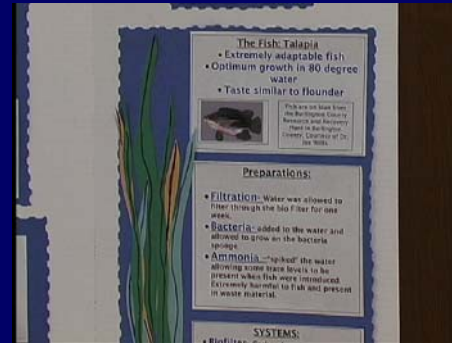


Pack It UP, Ship It Out





ED&E Capstone





Implementation

- A recent survey of **participating teachers** indicated that **ED&E** materials are being successfully implemented in NJ classrooms. They reported that more than **14,600 NJ students** have been introduced to **ED&E** materials during the 2002-2003 and 2003-2004 school years.



8 contextual learning units
have been developed by the
**Exploring Design &
Engineering** project.

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