

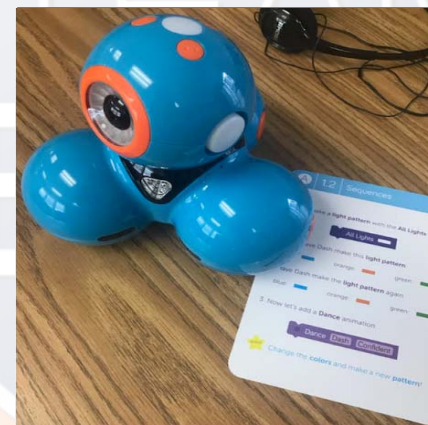
21st Century Instructional Initiative Grant Recipients 2017-2018

STEM CHALLENGES

Chadwick Elementary
Kate Miller, Principal
Felicia Ladson, Grant Liaison
Science, Technology,
Engineering, and
Mathematics

STEM Challenges are project-based learning opportunities where K-5 students work together as a team to solve/design real-life problems using the Engineering Process.

- Collaborative Teamwork
- Logical and Critical Thinking
- Effective Communication
- Life and Career Skills
- Student-led learning



5-STEP ENGINEERING PROCESS	
1. ASK Problems/Constraints Create a robot to do chores for Carol.	2. IMAGINE Brainstorm. Choose the best idea. Fast robot A robot that can dance
3. PLAN List. Sketch. Gather Materials. Vacuum	4. CREATE Follow the plan and test it out. Pick up stuff on its own.
5. IMPROVE Discuss and modify the plan. To make arms. out of tape	6. EVALUATE Orde ways

