Unpacking the Big Ideas
From the STEM Essential Standards
Universal Concepts for STEM Units
CHANGE. CHAOS. PATTERNS.
RELATIONSHIPS. SYSTEMS
Gifted Intelligent Behaviors’ Focus
Creating, Imagining & Innovating
Questioning & Posing Problems
Communicating with Clarity and Precision
The Engineering Design Process,
Ask-Imagine-Plan-CREATE-Improve

Effective Tools for Measuring Student Potential and Achievement
- NCLB, End of Grade Tests: Science, Math & English/LA, NCDPI
- Math Problem Based Questionnaire, 3rd Grade (Tzur, 2004); Cognitive Abilities Test (CoGAT)
- Rubrics - Intelligent Behaviors (Designed by Hargett, Gayle and Participants in Project Bright IDEA, 2002-2003)
- Parent Interviews and Profiles of their children (Alexander and Gayle’s, Development of Interest, AAGC, 2004)
- Digital Portfolios; Student products developed on real world problems using the Design Process.