A New Vision for Science Education Using STEAM

Phase-by-phase Roll Out for School Districts

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| Phase 1  **STEAM Awareness and Understanding** | Phase 2  **Connecting Using STEAM** | Phase 3  **Teaching and Assessing STEAM** |
| 2014-2015 | 2015-2016 | 2016-2017 |
| * Define STEAM * Work to understand STEAM parts and processes * Work to understanding vertical progressions and how it connects to current standards. * Identify willing participants. | * Auditing the current district science program relative to STEAM * Instructional pedagogy * Curriculum * Resources * Classroom Environment * School culture * Program and course structure * Summative, Interim and formative assessment * Based on the audit, make recommendations for continuous improvement. * Design and build the district STEAM based science program. | * Plan and implement instructional practices to engage students in learning STEAM based science. * Plan and implement assessments that ensure that students demonstrate grade level/ band performance expectations. * Analyze data from STEAM based assessments for continuous programmatic improvement. * Analyze data from relevant course state tests for continuous programmatic improvement. |
| **Ongoing Professional Learning**  **Beginning with an understanding of STEAM by all educators, districts should ensure that ongoing professional development supports science education using STEAM and pedagogy associated. This learning should develop knowledge and understanding about content, pedagogy, interdisciplinary connections and school/ classroom environments that foster coherent science programming.** | | |