

## Goal 2: Readiness for Future Success

**Goal Statement:** Increase student achievement to ensure that all students are challenged and engaged in quality instructional programs that prepares them for competitive college and career opportunities and future success.

**Objective 5:** Continue expansion of K-12 STEAM curriculum that combines problem solving with project-based learning and develops students critical thinking, communication, assessment, and inquiry skills that make connections to real-world applications.

<i>Major Activities</i>	<i>Staff</i>	<i>Resources</i>	<i>Timeline</i>	<i>Indicators of Success</i>
1. Form a K-12 STEAM Committee to review the existing programs and oversee the planning and implementation of STEAM Programs, to include ongoing evaluation of programs and activities.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Teachers and Supervisors of: Science, Technology, Mathematics, Visual and Performing Arts, Career Education</li> <li>● Principals</li> </ul>	<ul style="list-style-type: none"> <li>● Current curricula</li> <li>● Needs assessments</li> <li>● Research on existing STEAM Program</li> <li>● Surveys from students and staff</li> <li>● Classroom visits</li> <li>● Group discussions</li> <li>● Review of latest technology</li> </ul>	2016-2017 Committee  Implementa tion of STEAM Programs 2017-2021	<ul style="list-style-type: none"> <li>● Committee formation</li> <li>● Framework for project-based learning opportunities</li> <li>● Final STEAM projects for grades K-8</li> </ul>
2. Revise K-8 Science curricula to include engineering and design components.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Teachers and Supervisors of: Science, Technology, Mathematics, Visual and Performing Arts, Career Education</li> </ul>	<ul style="list-style-type: none"> <li>● NJDOE Model</li> <li>● Curricula</li> <li>● School Visits</li> <li>● Literature and Internet Research</li> </ul>	2016-2017	<ul style="list-style-type: none"> <li>● Formation of student-centered STEAM units in Grade 6</li> </ul>
3. Develop CTE STEM Program for Grades 9-12.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Principal</li> <li>● Supervisor of Career Education</li> <li>● Supervisor of Technology and Engineering</li> </ul>	<ul style="list-style-type: none"> <li>● Curriculum</li> <li>● NJ CTE Department</li> </ul>	2016-2018	<ul style="list-style-type: none"> <li>● State approval</li> </ul>
4. Establish a Planning and Instructional Team that will consist of a mathematics, science, technology & engineering, and art teacher.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Teachers and Supervisors of Science Technology, Mathematics, Visual and Performing Arts, Career Education</li> </ul>	<ul style="list-style-type: none"> <li>● NJDOE Model</li> <li>● Curricula</li> <li>● School Visits</li> <li>● Literature and Internet Research</li> </ul>	2016-2017	<ul style="list-style-type: none"> <li>● Formation of student-centered STEAM units in Grade 6</li> </ul>

## Goal 2: Readiness for Future Success

**Goal Statement:** Increase student achievement to ensure that all students are challenged and engaged in quality instructional programs that prepares them for competitive college and career opportunities and future success.

**Objective 5:** Continue expansion of K-12 STEAM curriculum that combines problem solving with project-based learning and develops students critical thinking, communication, assessment, and inquiry skills that make connections to real-world applications.

<i>Major Activities</i>	<i>Staff</i>	<i>Resources</i>	<i>Timeline</i>	<i>Indicators of Success</i>
5. Establish a partnership with national associations and universities.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Teachers and Supervisors of Science, Technology, Mathematics, Visual and Performing Arts, Career Education</li> </ul>	<ul style="list-style-type: none"> <li>● NASA Resources and Personnel</li> <li>● Montclair State University Faculty</li> </ul>	2016-2018	<ul style="list-style-type: none"> <li>● Analysis of the use of resources from partnerships</li> </ul>
6. Continue to develop Maker Spaces in media centers in all schools and provide accompanying PD to staff.	<ul style="list-style-type: none"> <li>● Supervisor of Career Education</li> <li>● Principals</li> <li>● Media Specialists</li> </ul>	<ul style="list-style-type: none"> <li>● Curriculum</li> <li>● Budget</li> </ul>	2016-2018	<ul style="list-style-type: none"> <li>● Final Maker Spaces</li> <li>● Professional development offerings</li> <li>● Sign-in sheets</li> </ul>
7. Evaluate current Foods Rooms in WOHS to determine alignment with the CTE DOE requirements that Culinary Arts facilities be full professional kitchens in order to prepare students for college and career.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Supervisor of Career Education and Library Science</li> <li>● Buildings and grounds</li> <li>● Building administrators</li> </ul>	<ul style="list-style-type: none"> <li>● State / City code regulations</li> <li>● CTE DOE Requirements</li> <li>● Budget</li> <li>● Inspections</li> <li>● Kitchen appliances (ovens, hoods, etc.)</li> </ul>	2016-2018	<ul style="list-style-type: none"> <li>● Evaluation report and recommendations</li> </ul>
8. Evaluate Media Centers at elementary and middle schools that will allow the district to create student learning environments more aligned to what is necessary to prepare students for college and career.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Supervisor of Career Education and Library Science</li> <li>● Director of Technology</li> <li>● Technology Department</li> <li>● Principals</li> <li>● Library Media Specialist</li> </ul>	<ul style="list-style-type: none"> <li>● Technology Plan</li> <li>● Budget</li> </ul>	2016-2018	<ul style="list-style-type: none"> <li>● Evaluation report and recommendations</li> </ul>

## Goal 2: Readiness for Future Success

**Goal Statement:** Increase student achievement to ensure that all students are challenged and engaged in quality instructional programs that prepares them for competitive college and career opportunities and future success.

**Objective 5:** Continue expansion of K-12 STEAM curriculum that combines problem solving with project-based learning and develops students critical thinking, communication, assessment, and inquiry skills that make connections to real-world applications.

<i>Major Activities</i>	<i>Staff</i>	<i>Resources</i>	<i>Timeline</i>	<i>Indicators of Success</i>
9. Increase electives for STEAM programs- possibly on-line courses beginning in grade 4 / 5.	<ul style="list-style-type: none"> <li>● Asst. Superintendent</li> <li>● Teachers and Supervisors of Science Technology, Mathematics, Visual and Performing Arts, Career Education</li> </ul>	<ul style="list-style-type: none"> <li>● Curriculum writing</li> <li>● Online courses</li> </ul>	2017-2019	<ul style="list-style-type: none"> <li>● Adoption of recommendations for STEAM electives</li> <li>● Course of study</li> <li>● Student enrollment</li> <li>● Curriculum</li> <li>● Academic teams</li> <li>● K-12 STEAM Lunch &amp; Learn</li> </ul>