

PHILADELPHIA EDUCATION FUND MISSION

To improve the quality of public education in Philadelphia and the region so that youth are prepared for college and careers

MATH + SCIENCE COALITION VISION

Philadelphia public school students will graduate high school with strong math and science knowledge and skills, enabling them to succeed in a 21st century STEM economy.

| Audience | COMMUNITY | EDUCATORS | STUDENTS |
|----------------------------|---|---|--|
| Goals | Escalate the importance of STEM education in the greater Philadelphia region | Enhance math and science teachers effectiveness | Increase math and science proficiency while developing 21st century skills for Philadelphia public school students |
| Strategies | <ol style="list-style-type: none"> 1. Participate in the development of STEM strategy (citywide and/or school district) 2. Identify STEM resources 3. Launch a public campaign on the importance of math and science among students | <ol style="list-style-type: none"> 1. Create robust learning communities 2. Recruit qualified math & science teachers | <ol style="list-style-type: none"> 1. Develop academic enrichment and interventions 2. Advocate on behalf of Philadelphia public school students for a stronger focus on math and science discipline 3. Build 21st century skills 4. Expose students to STEM professions |
| Strategic Alignment | <ol style="list-style-type: none"> 1. Philadelphia Science Fair 2. Chamber of Commerce 3. STEM corporate priorities | <ol style="list-style-type: none"> 1. Philadelphia Regional Noyce Partnership 2. Higher Ed Collaboration - deans and faculty 3. . Principal Learning Communities | <ol style="list-style-type: none"> 1. School District STEM priorities 2. Philadelphia Youth Network 3. Public Citizens for Children and Youth 4. Out-of-School-Time programs |
| Tactics | <ol style="list-style-type: none"> 1. Convene stakeholder meetings 2. Conduct asset mapping 3. Develop STEM tool kit 4. Leverage Math+Science=Success Campaign 5. Engage with Education First Compact | <ol style="list-style-type: none"> 1. Convene Teacher Forums 2. Leverage Philadelphia Teacher Residency (PTR) 3. Evaluate and support teacher led networks 4. Award mini grants | <ol style="list-style-type: none"> 1. Host STEM Philly events 2. Coordinate speakers bureau 3. Provide volunteer tutors |
| Metrics | <p><u>Short-Term</u></p> <ol style="list-style-type: none"> 1. Number of partners & sectors represented 2. Dollars raised <p><u>Long-Term</u></p> <ol style="list-style-type: none"> 1. Increase in # of STEM majors 2. Time/frequency of classes | <p><u>Short-Term</u></p> <ol style="list-style-type: none"> 1. Teacher forum surveys 2. Outputs (<i># of teachers attended, # of mini grants applied vs. awarded</i>) <p><u>Long-Term</u></p> <ol style="list-style-type: none"> 1. # of new math and science teachers 2. # of math and science teachers retained | <p><u>Short-Term</u></p> <ol style="list-style-type: none"> 1. PSSA scores/Keystone Exams/SATs 2. Event surveys (students) <p><u>Long-Term</u></p> <ol style="list-style-type: none"> 1. Whole School metrics 2. Student progress (tutor aligned) |

GOVERNANCE

The Advisory Council will be comprised of representatives throughout the City and across sectors. The Council will provide regular oversight and guidance, respective of the strategic direction and ensure that the vision of the Coalition becomes a reality through collaboration, effective best practices and on-going measurement and evaluation.