NEW PROSPECT ELEMENTARY SCHOOL STEM Action Plan

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1. Overall Goal: To research STEM initiatives and develop a plan to achieve STEM theme school status.

   **Action Steps**
   
   - Involve all stakeholders (teaches, SIC, PTO, families, students, and community) in research and planning
   - Provide opportunities for all teachers to observe STEM programs in other schools.
   - Invite local, state and national experts to provide professional development.
   - Develop relationships and establish partnerships with local businesses, colleges, and universities.
   - Create an internet based list of resources.
   - Supplement our professional library
   - Apply for status as a STEM theme school.

2. Timeline
   
   - **1st Quarter**
     - Focus on professional development with faculty.
     - Schedule visits to other schools using STEM
   - **2nd Quarter**
     - Continue to focus on research and professional development
     - Schedule forums with SIC, PTO, and business partners to present STEM concepts and information.
     - Seek partnerships with local businesses, colleges, and universities.
     - Utilize resources and relationships as stakeholders. Plan a school wide STEM day.
   - **3rd Quarter**
     - Continue to focus on research and professional development.
     - Implement school wide STEM day to emphasize STEM concepts.
   - **4th Quarter**
     - Apply for status as a STEM theme school.

3. Assessments:

   - Create an evaluation form for the teachers to give feedback on the STEM Day. Analyze comments to plan for future STEM activities.
   - Ask students to reflect on their projects.
   - Survey parents on their STEM experience.

4. Resources:

   - Partnerships with businesses, colleges, and universities
   - Professional library
   - Websites such as Engineering by Design and Children’s Engineering

5. Learning Experiences
• Grade levels will plan a STEM project for New Prospect’s STEM Day using the engineering design process
• Example
  o Shape Creatures for 4th Grade: Students will design and create a creature following given criteria and using geometric shapes studied during math lessons.