

The information we provide may contain errors or may not reflect the most current data. Please double-check, especially for the French translation. Feel free to contact us if you spot any inaccuracies. We are releasing this information with your permission and hope it supports your activities.

We encourage readers—especially children and families—to help us improve our content by sharing feedback and suggestions. Those who provide valuable input will receive exclusive discounts on all our products and exhibition entries.

For feedback, contact us at: [junelafayette1668@gmail.com](mailto:junelafayette1668@gmail.com)

**13.006: Developing Family Engineering Workshops (Early Childhood Focus)**

Core Concept	Search Keywords (Inbound/Outbound)	Related Network Resource	Linked Action	Practical Example / Impact
<p><b>Developing Family Engineering Workshops:</b> Organize workshops that introduce young children and families to engineering concepts through hands-on building projects. These workshops focus on creativity and problem-solving as families collaborate to construct models, structures, or machines, fostering innovation and teamwork.</p>	<p><b>Inbound Keywords:</b> - Search "family engineering workshops" or "creative engineering for families" - 1. Family engineering projects - 2. Early childhood engineering workshops - 3. Collaborative engineering activities for families  <b>Outbound Keywords:</b> - Use phrases like "global family engineering workshops" or "Montpellier family engineering programs"</p>	<p>1. <b>Family Engineering Workshop Toolkit:</b> Search "family engineering workshop toolkit" for resources that help families explore engineering concepts through building bridges, machines, and other structures. 2. <b>Purdue Family Engineering Learning Kits:</b> Search "Purdue family engineering kits" to find guides on engineering-focused family projects, from simple machines to building models. 3. <b>Montpellier Family Engineering Programs:</b> Search "Montpellier family engineering workshops" to find local programs that teach engineering principles through interactive family building activities. 4. <b>Global Engineering Learning Platforms:</b> Explore international platforms that offer tools and kits for families to engage in engineering-focused</p>	<p>1. <b>Create Engineering Kits for Workshops:</b> Build kits with activities that encourage families to construct bridges, towers, or machines, learning engineering principles like stability, balance, and mechanics. 2. <b>Tailor Engineering Projects Based on Family Interests:</b> Adapt the projects based on the family's interests, whether it's bridges, towers, or simple machines. 3. <b>Search Montpellier Engineering Programs:</b> Use "Montpellier family engineering programs" to explore local workshops that focus on collaborative engineering projects for families. 4. <b>Incorporate Digital Tools:</b> Add apps or platforms that allow families to explore engineering concepts through virtual building games and</p>	<p><b>Practical Example:</b> In September 2023, the Lefevre family in Montpellier attended a family engineering workshop where they built a suspension bridge using wooden blocks and strings. The family worked together to test the strength and stability of the bridge, learning about balance and tension. <b>Impact:</b> The Lefevre family improved their problem-solving and engineering skills, and their children became more confident in experimenting with structures. Their project was displayed at a local engineering expo in Montpellier.</p>

Core Concept	Search Keywords (Inbound/Outbound)	Related Network Resource	Linked Action	Practical Example / Impact
		problem-solving and building projects.	simulation tools.	

**Search Breakdown for I3.006:**

1. **Tippecanoe Local Resources:**

- **Tippecanoe Family Engineering Workshops:** Search "Tippecanoe Family Engineering Workshops" to find local programs that introduce engineering concepts through family-centered building projects. **Location:** Tippecanoe Technology Center, February 2024 Engineering Fair. **Characters:** The Patel family built a model roller coaster using basic materials. **Plot:** Families participated in a hands-on engineering event where they worked on building structures with everyday items.
- **Family Engineering Kits:** Use "Family Engineering Kits in Tippecanoe" to explore resources that promote engineering learning through building and problem-solving. **Plot:** The Greene family created a simple machine using levers and pulleys from their engineering kit.

2. **Purdue University Resources:**

- **Purdue Family Engineering Learning Kits:** Search "Purdue Family Engineering Kits" for guides that teach families engineering principles through building projects like towers and bridges. **Location:** Purdue Engineering Center, January 2024 Family Engineering Day. **Characters:** The Johnson family built a model wind turbine during a family workshop. **Plot:** Families collaborated to understand wind energy by constructing small wind-powered machines.
- **Purdue Family Feedback Programs:** Explore "Purdue Engineering Feedback Programs" for advice on adapting engineering workshops based on family skills and interests. **Plot:** Families shared their building projects and discussed how to improve their engineering designs during monthly feedback sessions.

3. **Montpellier Local Resources:**

- **Montpellier Family Engineering Workshops:** Search "Montpellier Family Engineering Workshops" to find local programs that teach engineering through interactive family projects. **Location:** Montpellier Innovation Hub, October 2023 Engineering Week. **Characters:** The Dupont family built a model bridge from recycled materials. **Plot:** Families learned about structural stability by constructing bridges during an innovation-themed event.
- **Montpellier Engineering Kits:** Use "Montpellier Family Engineering Kits" to explore workshops that promote hands-on engineering projects for families. **Location:** Montpellier local schools host monthly family engineering challenges. **Plot:** The Martin family constructed a tower using basic household materials and shared their experience at a school event.

#### 4. **Global Authoritative Resources:**

- **Global Family Engineering Platforms:** Search "Global Family Engineering Learning Platforms" to find international communities that promote engineering through family-centered building projects. **Characters:** The Nguyen family from Vietnam shared their model bridge project with an online global community. **Plot:** They received feedback from other families around the world, improving their design through virtual collaboration.
- **DIY Digital Engineering Tools for Families:** Search "DIY Digital Engineering Tools" to find apps and platforms that teach engineering concepts through virtual building and simulation games. **Plot:** Families participated in virtual building challenges, constructing bridges and machines through interactive online platforms.