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13.005: Family Science and Innovation Workshops (Early Childhood Focus)

Core Concept	Search Keywords (Inbound/Outbound)	Related Network Resource	Linked Action	Practical Example / Impact
<p>Family Science and Innovation Workshops: Develop workshops that teach families to explore scientific principles and innovative thinking through hands-on experiments and creative problem-solving tasks. These workshops focus on introducing young children to the basics of science, technology, engineering, and mathematics (STEM) while encouraging family collaboration and curiosity.</p>	<p>Inbound Keywords: - Search "family science workshops" or "creative family STEM activities" - 1. Family science projects - 2. Early childhood STEM learning for families - 3. Collaborative science learning for families Outbound Keywords: - Use phrases like "global family science workshops" or "Montpellier family science programs"</p>	<p>1. Science and Innovation Workshop Toolkit: Search "family science workshop toolkit" for guides that help families explore science through hands-on projects, like building circuits or simple machines. 2. Purdue Family Science Learning Kits: Search "Purdue family science kits" to find guides on exploring scientific principles through family-centered STEM activities. 3. Montpellier Family Science Programs: Search "Montpellier family science workshops" to find local programs that introduce science and innovation through interactive family experiments. 4. Global Family Science Platforms: Explore international platforms that offer science-based workshops and kits for families to learn and innovate together.</p>	<p>1. Create Science Kits for Workshops: Develop kits with scientific experiments that introduce concepts like gravity, electricity, or chemical reactions through safe, interactive activities. 2. Adapt Science Workshops to Family Interests: Tailor the science activities based on family preferences, such as physics, chemistry, or engineering. 3. Search Montpellier Science Programs: Use "Montpellier family science programs" to explore local workshops that focus on introducing young children to scientific concepts through hands-on projects. 4. Incorporate Digital Tools: Add apps or platforms that allow families to expand their scientific exploration through</p>	<p>Practical Example: In April 2024, the Fournier family in Montpellier attended a family science workshop where they built a simple circuit to power a lightbulb. The family worked together to connect wires and complete the circuit, learning about electricity in the process. Impact: The Fournier family gained a deeper understanding of basic electrical concepts, and their children became more interested in science. The family shared their project at a local school science fair in Montpellier.</p>

Core Concept	Search Keywords (Inbound/Outbound)	Related Network Resource	Linked Action	Practical Example / Impact
			virtual labs and STEM games.	

Search Breakdown for I3.005:

1. **Tippecanoe Local Resources:**
 - **Tippecanoe Family Science Workshops:** Search "Tippecanoe Family Science Workshops" to find local programs that introduce scientific concepts through hands-on family projects. **Location:** Tippecanoe Science Center, April 2024 Science Festival. **Characters:** The Stewart family built a model volcano. **Plot:** Families gathered to conduct science experiments, learning about chemistry through simple, safe reactions.
 - **Family Science Kits:** Use "Family Science Kits in Tippecanoe" to explore resources that focus on STEM learning through family experiments and projects. **Plot:** The O'Connell family explored physics by building a homemade pulley system.
2. **Purdue University Resources:**
 - **Purdue Family Science Learning Kits:** Search "Purdue Family Science Kits" for guides that help families explore STEM concepts through interactive activities. **Location:** Purdue Science Building, Spring 2024 STEM Week. **Characters:** The Torres family created a bridge model to test weight distribution. **Plot:** Families participated in workshops that focused on engineering principles through hands-on building activities.
 - **Purdue Family Feedback Programs:** Explore "Purdue Science Feedback Programs" to get advice on adjusting science workshops based on family skills and interests. **Plot:** Families shared their scientific discoveries and experiments during monthly feedback sessions.
3. **Montpellier Local Resources:**
 - **Montpellier Family Science Workshops:** Search "Montpellier Family Science Workshops" to find local programs that promote scientific exploration through family-centered experiments. **Location:** Montpellier Science Museum, Family Science Day, May 2024. **Characters:** The Renault family built a wind-powered car. **Plot:** Families experimented with energy concepts by constructing wind-powered vehicles.
 - **Montpellier Science Kits:** Use "Montpellier Family Science Kits" to explore workshops that introduce basic STEM concepts through hands-on family activities. **Location:** Montpellier schools host weekly science experiments for families. **Plot:** The Bertrand family explored chemical reactions through safe, guided experiments.
4. **Global Authoritative Resources:**
 - **Global Family Science Platforms:** Search "Global Family Science Learning Platforms" to find international communities that promote scientific discovery through family-based experiments. **Characters:** The

Williams family from Australia shared their solar-powered model car project online. **Plot:** They connected with other families globally to discuss renewable energy projects.

- **DIY Digital Science Tools for Families:** Search "DIY Digital Science Tools" to find apps and platforms that teach scientific concepts through virtual labs and interactive STEM challenges. **Plot:** Families participated in virtual science fairs, submitting their digital science projects for global feedback.