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

	Search Keywords	Related Network		Practical Example /
Core Concept	(Inbound/Outbound)	Resource	Linked Action	Impact
		1. Weather	1. Create Weather	Practical Example /
		Observation	Station Kits:	Impact: Characters:
		Journals: Use	Include a	The Thompson family,
		journals where	thermometer, wind	including 6-year-old
		children can draw	spinner, rain gauge	Oliver. Event: Oliver
		pictures of the	(simple DIY	wanted to be a "weather
		weather each day	versions), and a	scientist," so his family
Help children (ages 0-		and record simple	booklet with fun	helped him build a mini
6) explore the weather		observations. 2.	facts about the	weather station in their
by creating their own		Purdue Family	weather. 2.	backyard. Experimental
mini weather station.		Science	Introduce Local	Subjects: Wind, rain,
Through simple tools	Inbound Keywords: -	Exploration	Weather Tracking:	temperature, and cloud
and playful	Search "weather	Programs: Search	Encourage families	observations.
experiments, children	experiments for kids"	"Purdue early	to track the weather	Experimental Results:
learn to observe,	or "early childhood	childhood science	in their local area	Oliver measured how
measure, and record	science activities" -	guides" to find	(e.g., "Today in	many drops of rain
different weather	"DIY weather stations	activities that teach	Tippecanoe, it's	collected in his DIY rain
patterns (sun, rain,	for preschoolers" -	children about	sunny and 22°C!")	gauge, checked the wind
wind). This experiment	"exploring weather	natural phenomena	and compare it with	speed with a homemade
nurtures scientific	with toddlers"	like weather. 3.	other places. 3.	wind spinner, and drew
curiosity, creativity, and	Outbound Keywords:	Montpellier	Promote Weather	pictures of the sky each
understanding of the	- Use phrases like	Local Weather	Art Projects: Let	day. Core Plot: Oliver
world. Using local	"family weather	Clubs: Explore	children create	became fascinated by
weather elements,	projects" or "global	"Montpellier	drawings or crafts	how the weather changed
children can see how	weather learning for	children's weather	that represent	every day, eagerly
the weather changes in	children"	observation	different weather	checking his station each
their own		workshops" for	types, from fluffy	morning. His curiosity
neighborhoods, be it		hands-on	cotton ball clouds to	grew, and he started
Montpellier or		experiences that	glittery raindrops. 4.	asking, "Why is it windy
Tippecanoe.		allow kids to learn	Use Digital Tools:	today but calm
		about the weather.	Apps like Kid Weather	yesterday?" Impact: By
		4. Global Science	(to see weather	observing the weather
		Learning	forecasts designed	daily, Oliver developed
		Networks:	for children) and	basic science skills,
		Connect with	Plum's Weather	learned to track data, and
		platforms offering	<i>Adventure</i> (an	became more curious
		resources on	educational game	about the natural world.

X1.005: Weather Wonders - Creating Your Own Weather Station

Core Concept	Search Keywords (Inbound/Outbound)	Related Network Resource	Linked Action	Practical Example / Impact
		science learning, including basic meteorology for young children.	about weather) can make the experience interactive and fun.	He even inspired his friends to build their own weather stations, turning it into a local weather club!

Table X1.005: Experimental Template - Oliver's Backyard Weather Station

Location: Thompson Family Home, Tippecanoe

Characters: The Thompson family - Laura (Mother), Alex (Father), Oliver (6 years old) **Plot Summary:**

It all began when Oliver saw a weather forecast on TV and asked, "How do they know what the weather will be?" That simple question led to a weekend project: building a mini weather station in the backyard! With a little help from his parents, Oliver set up tools to measure the wind, rain, and temperature, turning himself into Tippecanoe's youngest meteorologist. Every morning, Oliver would rush outside to check his station, thrilled to see what the weather had in store that day.

Experiment Objective:

To introduce children to the basics of weather observation through hands-on activities. By setting up simple tools, children learn to observe, record, and talk about different weather conditions, helping them build a foundation in science, data tracking, and environmental awareness.

Experiment Steps:

1. Materials Needed:

- DIY thermometer (can use a store-bought one)
- Wind spinner (made from paper cups or pinwheels)
- Rain gauge (a simple plastic bottle with measurements)
- Notebook for weather journaling
- o Colored pencils, cotton balls, and glitter for crafting weather "art"

2. **Setup:**

- Place the thermometer in a shaded area to get an accurate reading.
- Set up the rain gauge in an open spot where rain can fall directly into it. Use a marker to draw lines showing how much rain has been collected.
- Use a wind spinner to see how fast the wind is blowing. Make it fun by decorating the spinner with bright colors so it's easy to see when it's turning!
- Start a daily weather journal where Oliver can draw what the sky looks like, note the temperature, and write down how windy it is.

3. Procedure:

- Every morning, Oliver checked the thermometer to see how warm or cool it was. "It's 15 degrees! Time for a sweater," he'd announce, grinning as he added the reading to his notebook.
- On rainy days, he would run out to see how many millimeters of water had collected in his rain gauge. "Wow, it rained a lot last night!" he'd say, drawing

a picture of big raindrops with glitter to make them sparkle.

- To check the wind, Oliver would stand next to his wind spinner, watching it twirl. "It's spinning fast today!" he'd report, learning to connect the spinning speed with how windy it was.
- Laura and Alex encouraged Oliver to use the *Kid Weather* app to see the forecast for Tippecanoe and compare it to what he was observing. They also looked up the weather in Montpellier, adding a bit of friendly competition:
 "Who has the sunnier weather today?"

4. Data Recording:

- Oliver's weather journal became a treasure trove of colorful drawings, numbers, and stickers. Every few days, he would share his journal with his grandparents over video calls, proudly showing off how much he'd learned.
- Alex helped him create a simple graph showing how many rainy days they had in a week. Oliver liked coloring the bars and drawing little clouds above the graph.
- Using *Plum's Weather Adventure*, Oliver learned about why it rained, how clouds formed, and even made his own mini cloud inside the app, deepening his curiosity about the weather.

5. Results:

- Observations: Oliver quickly learned to connect the temperature readings with how he felt outside ("It's chilly at 10°C but warm at 25°C!"). He also loved checking his rain gauge after a storm, excited to see how much rain had fallen.
- Conclusion: By building his mini weather station, Oliver gained a basic understanding of weather patterns, learned to record simple data, and improved his observational skills. The project boosted his confidence, and he enjoyed sharing his findings with friends and family. He even organized a "weather day" at his preschool, where all the kids brought their own weather journals to share.

Core Plot:

Oliver's weather station wasn't just about numbers—it was about discovering the magic of the world outside. Every time the wind picked up, or raindrops fell, Oliver felt like he was part of something bigger, like a mini scientist uncovering the secrets of the sky. He loved telling his parents, "I'm checking the weather today!" with a serious nod, as if he were the official weatherman of Tippecanoe. And when he learned that his friends in Montpellier were building their own stations, he thought, "Maybe we can start a weather club and be weather scientists together!"

Weather Element	Date	Observation	Oliver's Reaction	Weather Art
Temperature	October 15th	"18°C - A bit chilly today!"	"Sweater weather!" (Adds sweater sticker)	Drew a sun with a sweater hanging on it
Rainfall	October	"5 mm of rain	"It rained so much!	Made glittery

Data Table:

Weather Element	Date	Observation	Oliver's Reaction	Weather Art
	16th	collected"	The plants will be happy!"	raindrops
Wind	October 17th	"Wind spinner moving slowly"	"Not very windy. Maybe the leaves are tired?"	Drew a leaf blowing in the wind
Cloud Coverage	October 18th	"White fluffy clouds"	"Looks like cotton candy!"	Glued cotton balls for clouds

Impact:

By engaging in daily weather observations, Oliver learned more than just science—he gained a sense of connection to his environment. Tracking weather patterns helped him understand why it's cold in the morning and warm in the afternoon, why rain makes plants grow, and even why the wind feels different on different days. His colorful weather journal became a point of pride, sparking curiosity in his classmates, and soon they were all keeping their own weather logs. The teachers decided to introduce "Weather Week" to encourage more children to be little meteorologists like Oliver.

Encouragement for Families:

Build your own weather station! It's simple, fun, and a great way to get kids excited about science. You don't need fancy tools—a plastic bottle rain gauge, a simple thermometer, and a pinwheel can do the trick. Let your child take charge, record their observations, and add a creative touch with drawings, stickers, or digital apps. You might find yourself checking the rain gauge first thing in the morning, just like Oliver!