

Parent strategies: Help your child build tools for doing science by thinking about how and why things work and gathering information as you explore.



Gather and Record Data

WHAT

There's ways to **collect data** all through out your day. When you ask, "How much, how many" those **numbers are data!** You can capture data by writing notes, keeping tallies, or making charts. Recording simple data can help your child want to learn more.

WHY

- **Measure your child's growth** on a chart. Discuss, "How much have you grown since our last measure?"
- At clean-up time group toys or kitchen **objects into categories**. Ask, "How many of each object do we have?"
- **Tally how many insects** you find outdoors. Say "Let's keep a list of how many bugs we find."
- Get out a **clipboard and timer** and pretend you are scientist. Say, "Let's see how long it takes us to do _____ (routines - dishes, bathing; or games - puzzle, race)."



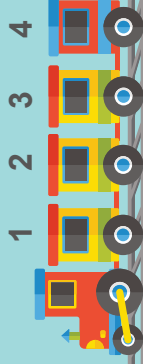
Understand Your Findings

WHAT

Exploring our world and collecting data are the keys to science! You are supporting your child's interest in science when you **take time to explain your data**. Discuss how and why things happened the way they did.

WHY

- After you measure your child's growth, **talk about patterns**: "When have you grown more quickly/slowly?"
- Think about how to **sort and organize** toys or kitchen objects: "How can we best organize these into groups?"
- Consider different **types and features of insects** you count. "How many of these bugs fly/walk? How many bugs are safe/unsafe?"
- After you **set a timer**, think about how to do an event more quickly. "How can we do that faster?"



In Your Community

Children's Museum

- **Eco-Station:** explore environmental issues by visiting a native plant garden, woodland area pond and a research pavilion dedicated to local flora and fauna!
- **How Does It Work?:** discover answers to your own science questions through hands-on exploration of kinetic energy, simple machines, electricity and pneumatic tube systems!

Library

- *Tilly O'Malley* by Stuart J. Murphy
- *I Use Math At The Doctor's* by Joanne Mattern
- *The Best Vacation Ever* by Stuart J. Murphy
- *The Great Graph Contest* by Loreen Leedy
- *Bar Graphs* by Vijaya Khisty Bodach

Park

- Ask "What causes branches or leaves to fall?"
- Ask "How does a swing work?"
- Count, group and compare rocks.
- Gather, group, and compare different leaves, flowers, or plants.

At Home

CLI Engage Activity Collection



<https://cliengagefamily.org>

Shape Similarities

Identify shapes and use their features to sort them into "like" categories.



Line Up Snakes!

Use pieces of yarn as "snakes" to compare lengths of objects and arrange them in order.

