



STEAM Goal Setting Guide for Agencies

Your early STEAM (science, technology, engineering, arts, and math) team may use this tool to identify your community's early STEAM strengths and opportunities for growth.

Plan: Data Collection and Reflection

Use this chart to list data that your community already collects. Then, identify additional data you want to collect. You may collect data on one group (for example, educators) or a combination of groups (for example, educators and children).

Professional Learning (PL) Providers or Coaches

Identify data you might want to collect:

- feelings and thoughts about math and science
- knowledge of early math and science development and pedagogy
- confidence and skills in providing PL and coaching on early math and science

Explore ways to collect data:

- PL provider or coach surveys
- team meeting discussions
- observations of PL providers or coaches implementing PL or coaching

Information you already collect:

Information you want to collect:





Educators

Identify data you might want to collect:

- feelings and thoughts about math and science
- understanding of early math and science knowledge and skills
- math and science teaching practices and learning environments

Information you already collect:

Information you want to collect:

Explore ways to collect data:

- educator surveys
- educator PL histories
- observations of educators and their early learning settings

Children

Identify data you might want to collect:

- current understanding, knowledge, and skills in each math area (for example, geometry and spatial thinking, number and counting)
- current science understanding, knowledge, and skills

Information you already collect:

Information you want to collect:

Explore ways to collect data:

- observations of children
- Desired Results Developmental Profiles (DRDP)
- math and science curriculum assessments
- standardized tests (elementary age only)





Families

Identify data you might want to collect:

- feelings and thoughts about math and science
- ways families support early math and science learning at home, especially based on their unique cultural and linguistic backgrounds

Explore ways to collect data:

- family surveys
- information from family enrollment forms and meetings
- conversations with families

Information you already collect:

Information you want to collect:

How You Might Collect Data

Once you identify the data you want, consider how you might collect the information. Use the space below to describe how you will obtain it. You might include who is responsible for gathering the data and when it will be collected.





Reflect on Your Data

After you gather the data, review it and reflect on the patterns you notice. Then, describe what you notice about the groups from whom you collected data.

Areas of Strength and Opportunities for Growth	What do you notice?
PL providers or coaches	
Educators	
Children	
Families	



Review what you learned about PL providers, educators, children, and/or families. Identify patterns to decide on the greatest PL needs. Consider the following questions:

- What did you learn about PL providers' or coaches' needs?
- What did you learn about educators' STEAM mindsets?
- In which STEAM areas do educators report needing more support?

Identify Your Overarching Early STEAM Goal

Use your responses to the previous questions to identify an overarching early STEAM goal for one or more of the groups below.

Goal for Professional Learning Providers or Coaches:

Goal for Educators:

Goal for Children:

Goal for Families:

