

Observing M⁵ in Action: Data

This handout provides questions that help observers notice each of the M⁵ teaching practices. It includes questions that apply across ages. Use the questions that work best for the video you have chosen. The video clip may or may not include examples related to each question.

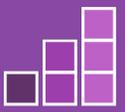
Mutual Learning

- What did (or might) the educator learn about each child during this experience?
- In what ways was the educator responsive to individual children? Consider children's interests, languages, cultures and lived experiences, abilities, and emerging skills and knowledge.

Meaningful Investigations

- In what ways did the educator support children's thinking and problem-solving related to data collection, representation, or interpretation?
- In what ways was the experience based on children's questions, interests, or real-world situations?
- In what ways was the experience open-ended? How did this support children to experiment with different approaches to solving a problem or answering a question?





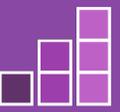
Materials and Learning Environment

- What did you notice about the materials and learning environment?
- Were the materials made accessible for all children?
- In what ways did the materials and learning environment offer opportunities for children to engage in data collection, representation, or interpretation (for example, chart paper, clipboard, whiteboard, colored markers)?

Math Vocabulary and Discourse

- What math vocabulary did the children or educator use?
- In what ways did the educator encourage children to notice and communicate about the data they collected (for example, by asking questions)?
- In what ways did the educator encourage children to participate in math discussions related to data collection, representation, or interpretation? Some ways children might participate in math discussions include questioning, describing, comparing, or explaining.
- In what ways did the educator support multilingual learners to communicate about data collection, representation, or interpretation?





Multiple Representations

- What opportunities did the educator offer children to collect or represent data in different ways?
- What other learning experiences or materials might the educator offer to continue to build children’s understanding of data collection, representation, or interpretation?

