INVITE PARTICIPATION

Greet participants
Say “hello,” make eye contact, and smile. Looking like you’re available and friendly will invite learners to interact with you. To start things off, you can ask a question that sparks participants’ interest.

Model what to do
To encourage participation or demonstrate safe procedures, you can quickly show learners what to do and then suggest that they try the activity themselves. If possible, meet them at eye level when explaining or modeling.

Engage the whole group
Participants will learn best if their entire social group takes part. To engage those who are hanging back, you can ask them a question or suggest something they can do.

Have fun!
Convey a positive attitude about learning chemistry together.

SUPPORT EXPLORATION

Let participants do the activity
As much as possible, let participants do the hands-on parts of the activity and let them discover what happens. You can ask questions, offer hints, and help out as needed.

Be flexible and attentive
Pay attention to participants’ interest, age, and abilities, and modify your facilitation style to create a safe, fulfilling experience for them. Keep in mind that children do not have the same prior experience, motor skills, or vocabulary as adults.

Ask guiding questions
Ask questions to discover what participants know or are interested in. You can also ask questions to help them notice something or try something out. Avoid asking questions that have right or wrong answers.

Be a good listener
Be interested in what participants tell you, and let their curiosity and responses move the interaction forward.
Use simple, clear language
Focus on one main idea at a time—don’t feel that you need to tell participants everything at once! Keep the information basic for starters, and be willing to expand on an idea for interested learners.

Offer positive feedback
Observe what participants are doing, and provide positive reinforcement.

Support learners through challenges
Help participants figure out what to try next, rather than telling them what to do. When learners have trouble articulating their thoughts, help them think it through themselves.

DEEPEN UNDERSTANDING

Ask discussion questions
As learners progress through the activity, you can ask questions that encourage them to draw from their own experience, make observations, and test their own answers.

Make connections
Help participants observe and think about the activity. Encourage them to make connections to personal experiences in everyday life and societal issues.

Share what you know
Contribute ideas and information from your own experience, maintaining a focus on helping participants develop positive attitudes toward learning chemistry.

Acknowledge what you don’t know
If you aren’t sure about something, it’s ok to say, “I don’t know. That’s a great question!” Work with them to find the answer, or suggest looking online for more information.

Wrap up
Follow participants’ cues and recognize when they’re ready to move on. Thank them for participating and suggest other activities they might enjoy.