

## **Questions Are Central to Science, Technology, and Science Education**

**“Questions” Promote Constructivist Learning and Provide a Means to Assess Teaching Successes**

Research suggests that Exceptional Teachers continue to use questions in their teaching and in their own learning as well as expecting their use for their students. Five examples of questions to frame classroom actions include the following:

1. Asking questions that describe:
  - a) What you did?
  - b) What happened?
  - c) What you observed?
2. Asking students for advice:
  - a) What evidence do you have for the idea?
  - b) What thinking/observations lead you to suggest that?
3. Seeking explanations:
  - a) How would you explain that?
  - b) What may have caused it to happen?
4. Asking questions that relate to responses from others: (e.g., students, parents, other students, industrial leaders)
  - a) What did other people suggest?
  - b) How do they compare?
5. Asking questions that predict:
  - a) What you will do next?
  - b) What will happen if you ...?