

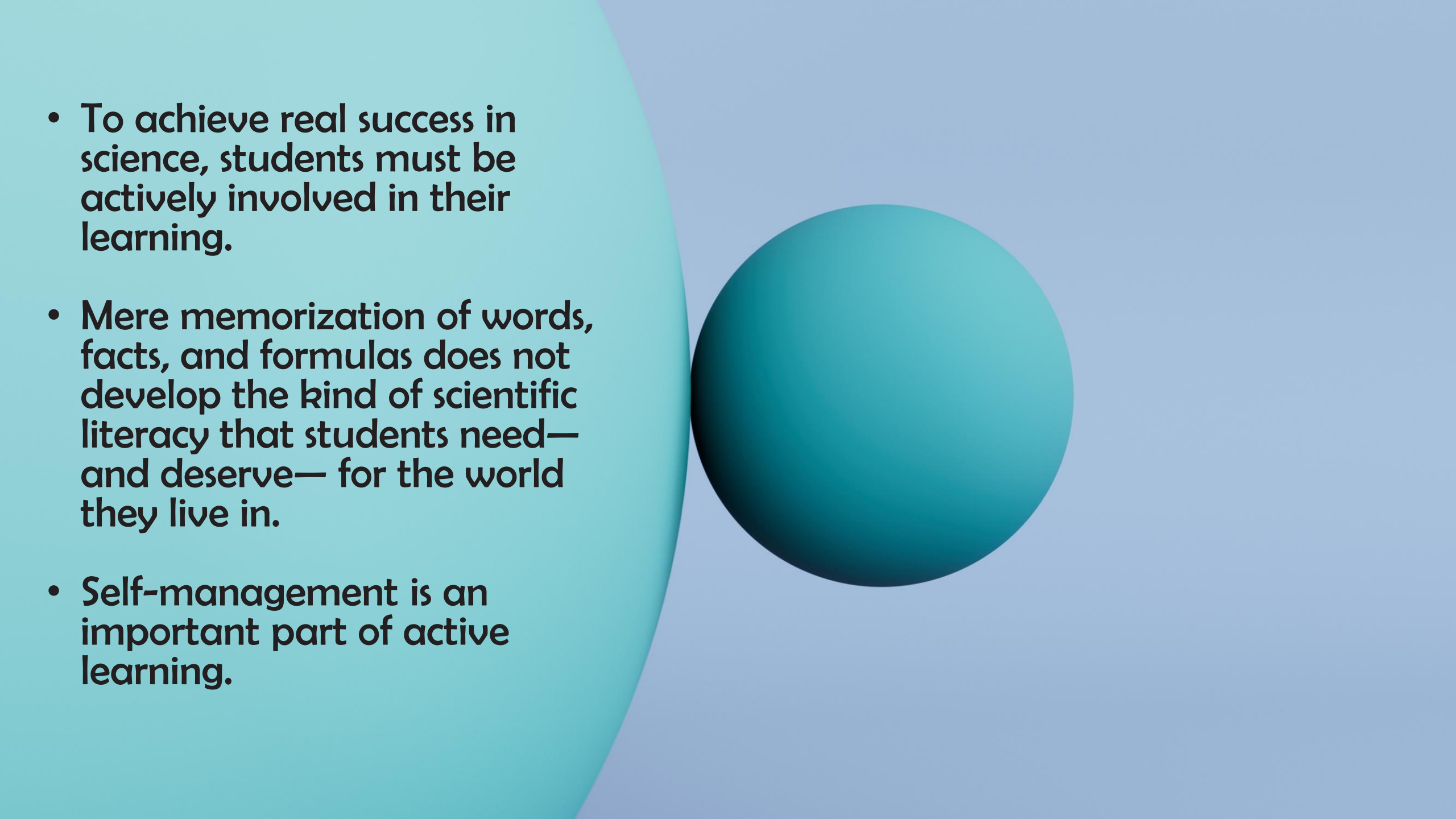


# Achieving Success in Science

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Fostering Self-Management | Grades 6-8



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- To achieve real success in science, students must be actively involved in their learning.
  - Mere memorization of words, facts, and formulas does not develop the kind of scientific literacy that students need—and deserve—for the world they live in.
  - Self-management is an important part of active learning.



## **Self-management includes the following:**

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### **Self-monitoring:**

Students should know how to tap into what they already know about a topic or a concept.

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### **Self-regulation:**

Successful students recognize when a process or approach is not leading them in the right direction toward a correct answer.

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### **Self-assessment:**

Students who know how to evaluate both their problem-solving strategies and the results of their work have a greater chance of success in science.

# How parents foster this kind of self-management for their student?

- Effective questioning strategies provide one way to encourage students.
- Parents can model the kinds of questions that students should be asking themselves as they engage in learning.





## Some examples of such self-monitoring questions appear below.

- What am I supposed to know or discover about\_?
- What do I already know about \_\_\_?
- What can I do with what I already know?
- Could there be more than one right answer or solution?
- Is any important information missing? If so, what is it?
- Have I read or learned about similar concepts or ideas in the past?
- What problem-solving strategies do I know?
- Which problem-solving strategies might help me with this task?
- What have I learned about \_\_\_\_\_?
- How well do I understand \_\_\_\_\_ now?
- Was my problem-solving strategy successful? Why or why not?
- What could I have done differently?
- What else would I like to know about \_\_?

Parents can also lead their student toward greater self-management with questions like these:

**Probing questions:**

- How did you begin your study of \_\_\_\_\_?

**Clarification questions:**

- What did you mean when you said/wrote \_\_\_\_\_?
- Could you give an example of \_\_\_\_\_?

**Elaboration questions:**

- What information did you use to \_\_\_\_\_?
- What else can you tell me about \_\_\_\_\_?

**Redirection questions:**

- What could you have done differently if your first attempt was not successful?
- Have you thought about trying \_\_\_\_\_?

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