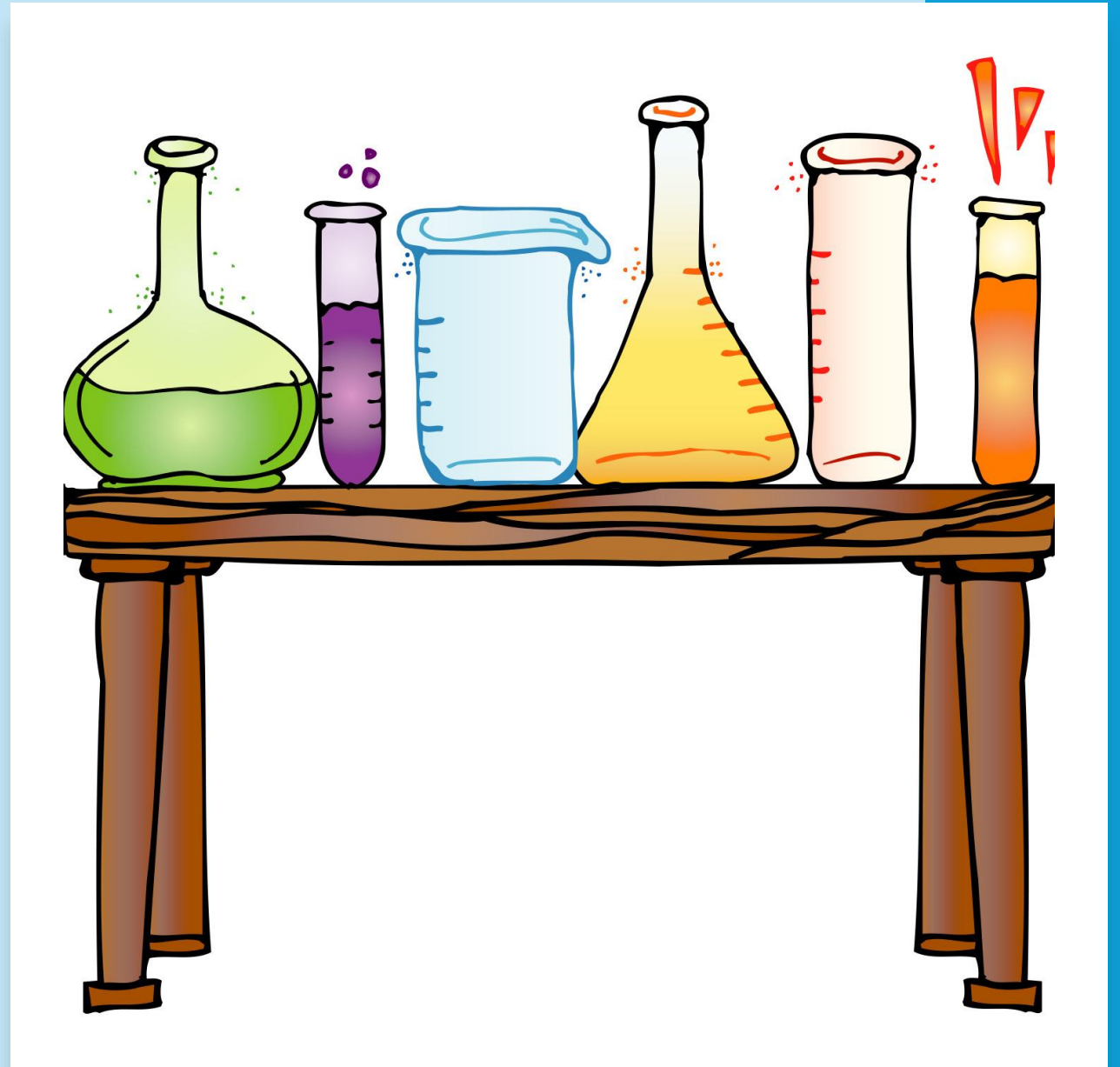


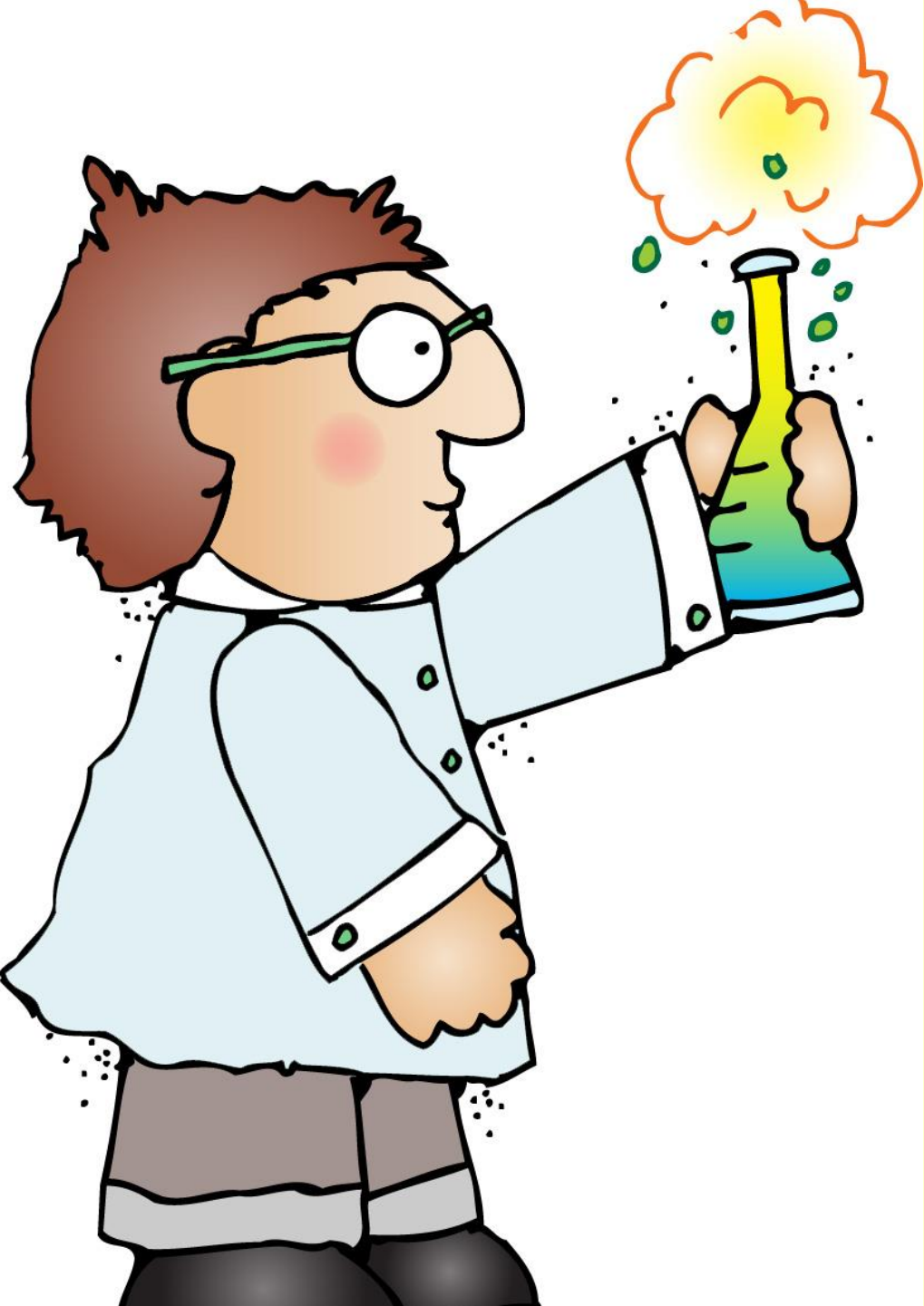
Achieving Success in Science

Fostering Self-Management
Grades 1-5



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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:

Self-monitoring:

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

Self-regulation:

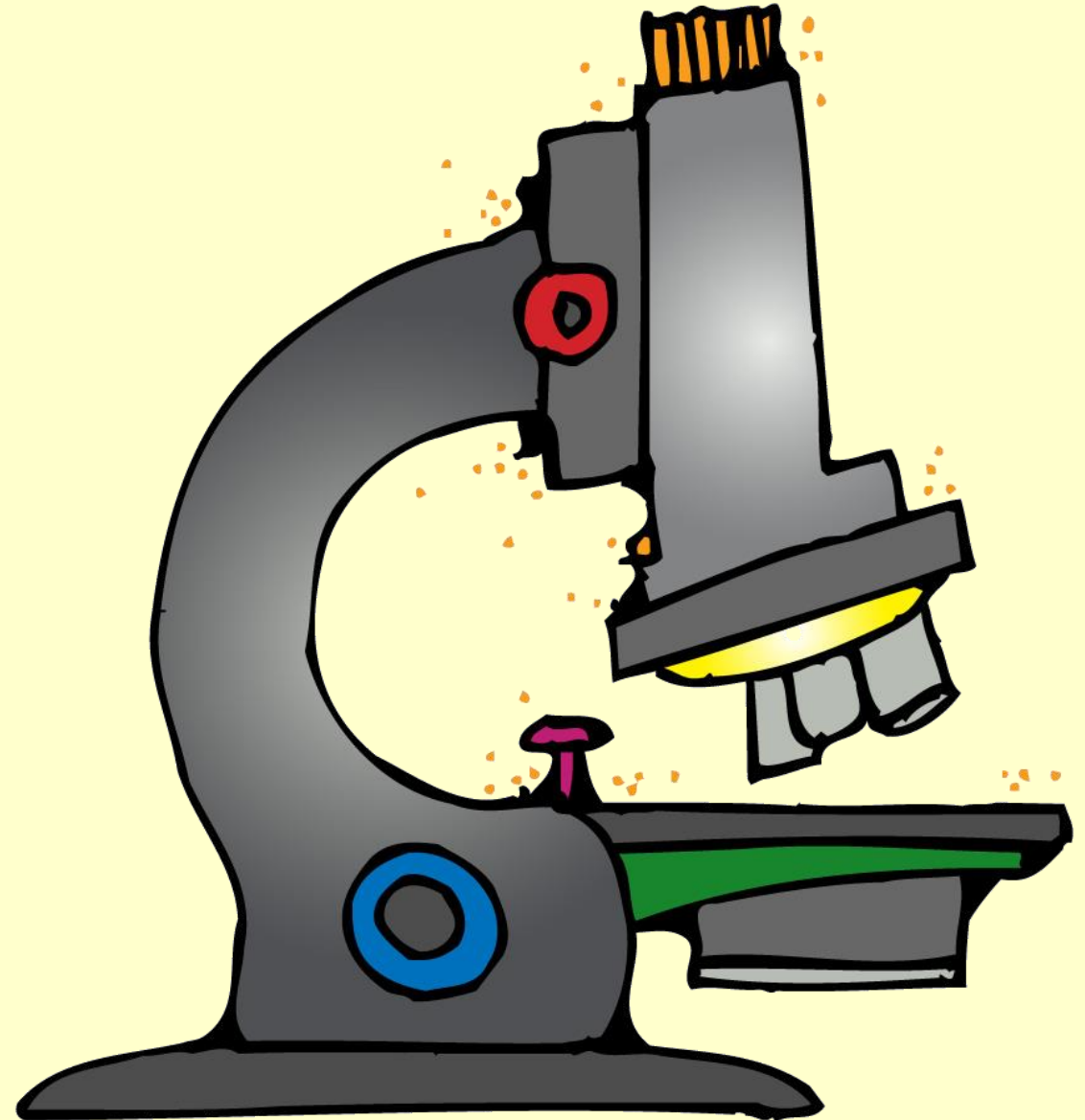
Successful students recognize when a process or approach is not leading them in the right direction toward a correct answer.

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 families foster this kind of self-management for their student?

- Effective questioning strategies provide one way to encourage students.
- Families 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 _____?



Families 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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