Collaborative Discussion Framework (Lash & Park, 2015)

What are you trying to do?

» Do they have or understand the purpose?

What have you tried already?

» Restate in steps what they have already done.
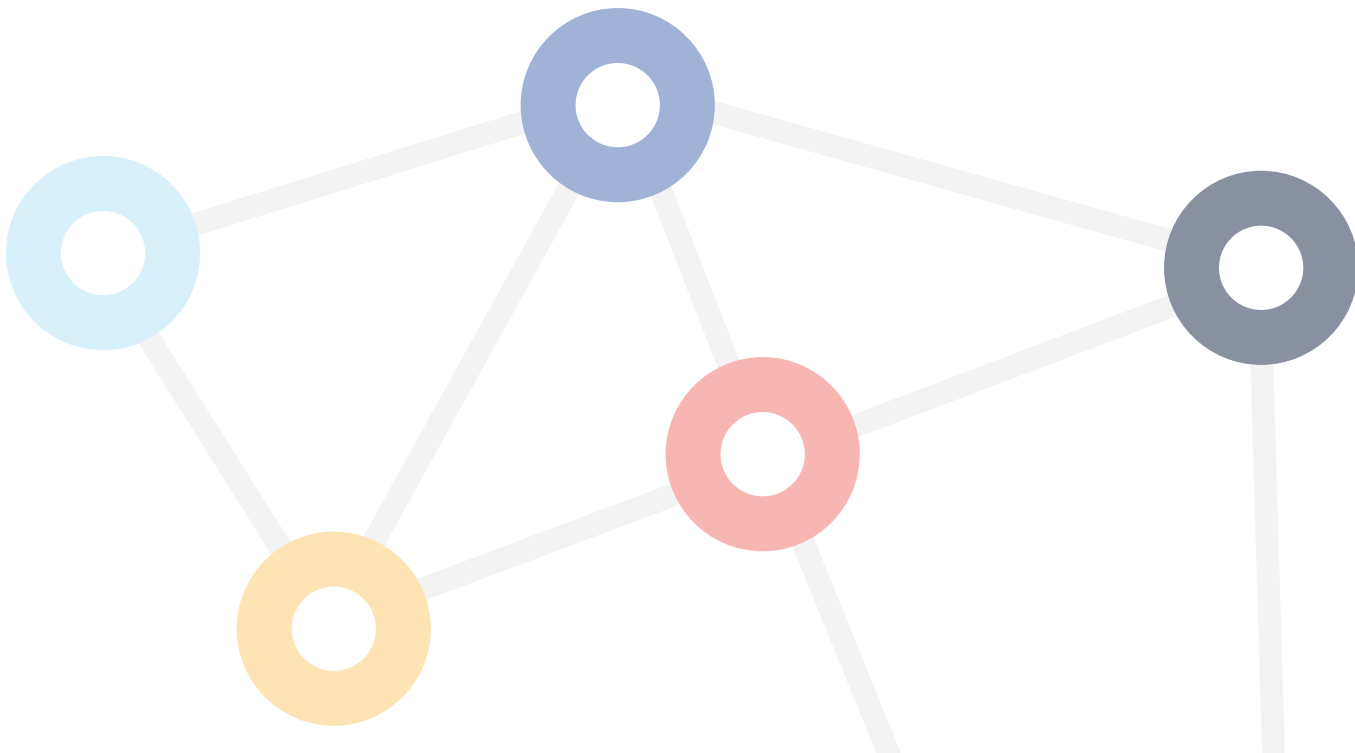
What else do you think you can try?

» Brainstorm, encourage students to take a chance.

What would happen if....?

» Come up with some possible solutions and hypothesize the outcomes. Test each hypothesis.

Celebrate & share!

» Take charge of celebrating one's excitement.

   » Self recognition / realization (solution / different idea)
   » Recognition for other's help? idea? solution? - Take 3

Collaborative Discussion Framework (Teacher support document)

> The Collaborative Framework is a direct application of **SMP3** "Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments."

» **What are you trying to do?**

(Do they have or understand the purpose?)

1. What is/was your plan for solving this problem? (**GMP 1.2**)

» **What have you tried already?**

(Restate in steps what they have already done)

1. What did you start with? (**SMP1&6**)
2. Why did you choose that sequence, algorithm, algorithm, block, operation etc.? (**SMP6**, **GMP6.1**)
3. Does that make sense? (**SMP1**)
4. Can you explain this part to me? (**SMP1**)

» **What else do you think you can try?** *(GMP1.3 Try Different Approaches When Your Problem is Hard)*

(Brainstorm, encourage students to take a chance.)

This is really about helping the student to decompose the problem, simplify, identify parts that do and don't work. ""How might you solve a simpler task to help you with this problem?"

1. How is this like another problem you have solved? (**SMP1**)
2. Can you use your previous solution to help you solve this one? (**SMP1**)
3. Is there a part that works? (**SMP1**) (**GMP3.1**)
4. Where does the script stop working? (**SMP1**)
5. Do you see any patterns that may help you? (**SMP7**)
6. What would happen if you continued the pattern? (**SMP7**)

» **What would happen if...?**

(Come up with some possible solutions and hypothesize the outcomes. Test each hypothesis).

» **Celebrate & share!**

(Take charge of celebrating one's excitement)

» Self recognition / realization (solution / different idea)
» Recognition for other's help? idea? solution? - Take 3