Questions that…

1. Help students rely on their own understanding
    a. Where have you seen this before?
    b. Do you remember when…?
    c. What are some questions or preconceptions you have?
    d. Are there any words or numbers you recognize?
    e. Can you rephrase the question?
2. Help students reason mathematically
    a. Can you explain your reasoning.
3. Check student progress
    a. What do you have so far?
    b. What have you been able to do at this point?
    c. How do you know if you're on the right track?
4. Help students collectively make sense of mathematics
    a. What have you discussed as a group?
    b. Have you compared and contrasted your work?
    c. Has anyone else done the problem in a different way? What does that show you?
5. Encourage conjecturing
    a. What would happen if…?
    b. What causes the pattern you noticed?
    c. What is the connection between…?
6. Promote problem solving
    a. What techniques have you used before?
    b. Can you look at a simpler case?
    c. Did you draw a diagram?
    d. Did you notice any patterns?
    e. What is something else to investigate?
7. Help when students get stuck
    a. What have you done so far?
    b. What do you think you do now?
    c. Can you re-read the problem? Is there something you missed?
8. Make connections among ideas and applications
    a. Where have you seen this before?
    b. Is that related to something we did earlier?
9. Encourage reflection
    a. What do you think you do now? Why?
    b. How could you say that to a 4^{th} grader? How could you say it with fewer words?