Lesson Plan for Week 5

Hand out note cards
And ask them to come up with at least one question and turn it in by the end of class.
(Individual Accountability)

5 minutes

Split into groups of three (Face to Face)
Suggest that they as groups go over material this weekend

5 minutes

Announce that today we are going to focus on positive critiquing (Social Skills)

Group grade based on participation must turn in a sheet of paper at the end of class.
Go over problems from last time and continue ask them to come up with an algorithm to solve those types of problems.

for (int I = 0; I < n; I = I + 2)
    for(int j = 0; j < I; j++)
        sum++;

for (int I = 0; I < n; I = I + 2)
    for(int j = 0; j < I; j = j + 2)
        sum++;

for(int I = 0; I < n^2; I = I * 4)
    sum++;

for(int z = 0; z < n^2; z = z * 9)
    for(int j = 0; j < z; ++j)
        sum++

10 minutes for each problem 5 for solving and 5 for discussion = 40 minutes at least

Next four problems are extra in case we finish everything
4n^2 + 7*n is O(n^2)
n * log(n) is O(n)
4 log^2(n) + log(n) is big omega log^2(n)
4 log^2(n) is big omega (n*log(n))

10 – 15 minutes for the problems

At end of class ask them to thank their teammates for participating. (Personal Interdependance) Take up note cards and papers.