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.

```java
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.