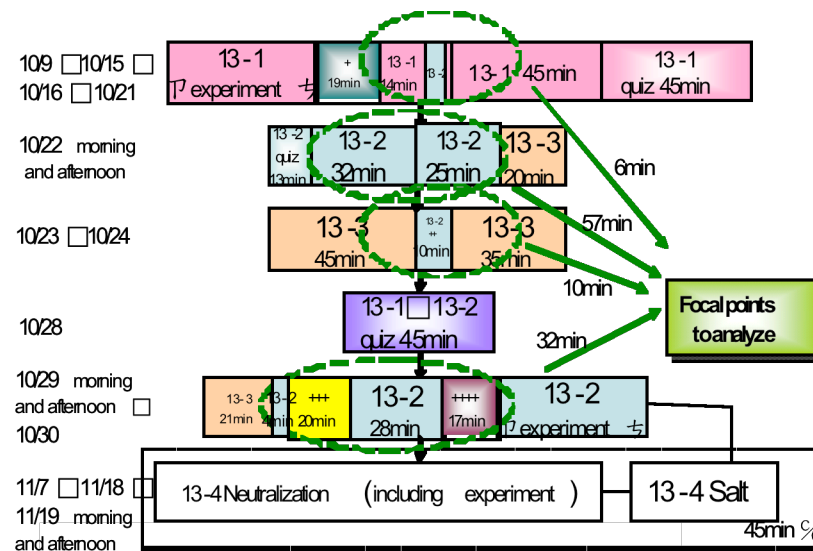


(A) The teaching structure which teacher's guide suggested



(B) Mrs. Chen's teaching structure

Figure 1. The teaching structures which teacher's guide suggested and Mrs. Chen's real taught

Note: + Review of chapter 12;

+++ Supplementary material of calculating pH value

++ Discussion of handout;

++++ Review of midterm examination