

26202 - Physical Chemistry for the Biological Sciences

Bachelor course
50-60 students
Biotechnology
Environmental Engineering
Human Life Science Engineering
Environmental Engineering
Manufacturing Engineering
Medical Engineering

Resultater		2014
Karakter	Antal	
12	2	█ (2,9 %)
10	4	█ (5,9 %)
7	12	█ (17,6 %)
4	13	█ (19,1 %)
02	14	█ (20,6 %)
00	10	█ (14,7 %)
-3	11	█ (16,2 %)
Ej mødt	2	█ (2,9 %)

The 5th DTU Biennial for Teaching & Learning:
Good Teaching Practice in Engineering Education

Inspiration for e-learning, online training / e-learning platform

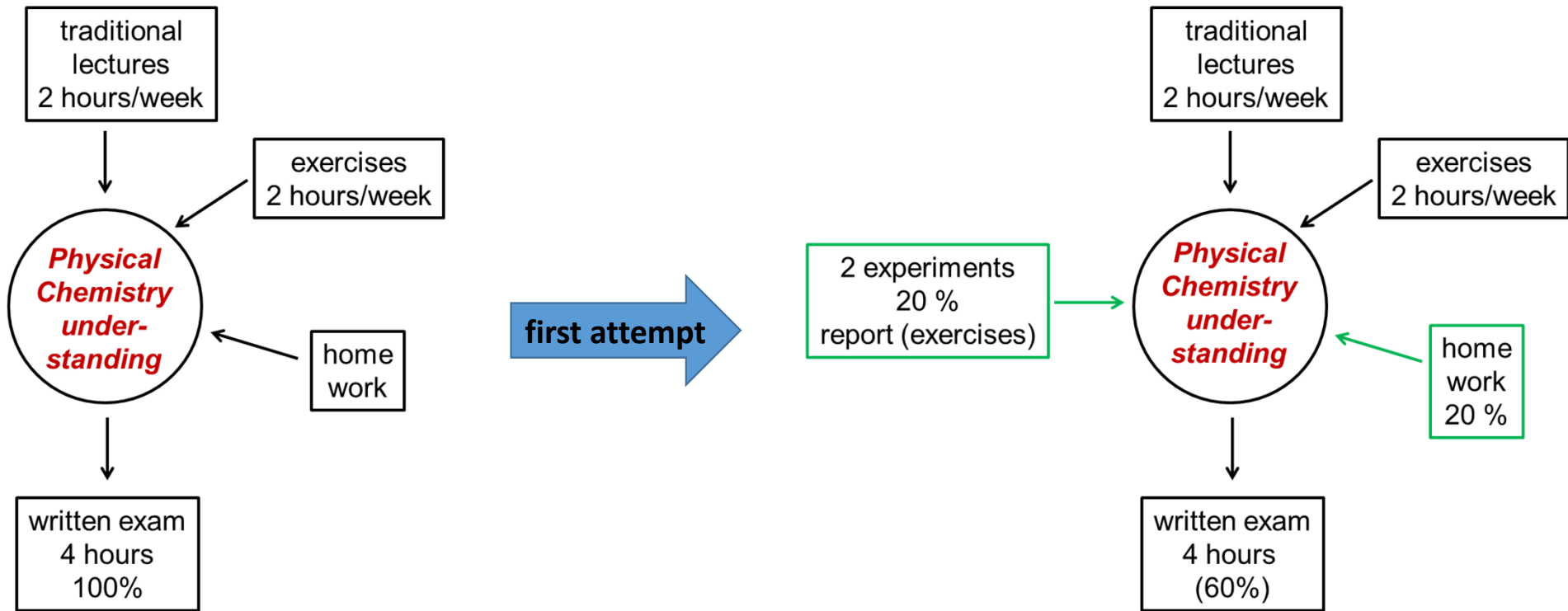
- Series of seminars organized by DTU LearningLab. For instance:
"Seminar on quality in online education", (Sept. 2013)
Michael K. Petersen, DTU Compute;
Anders G. Pedersen, DTU Systems Biology;
Merete Badger, DTU Wind Energy;
Rasmus Blok, Center for Teaching and Learning, University of Aarhus
- Jan H. Jensen (Cph. Univ.); lecture at DTU Chemistry (Febr. 2014); experience with e-learning and videos supporting his lectures
- Youtube / examples offered by the MIT / University of California

Help during the process

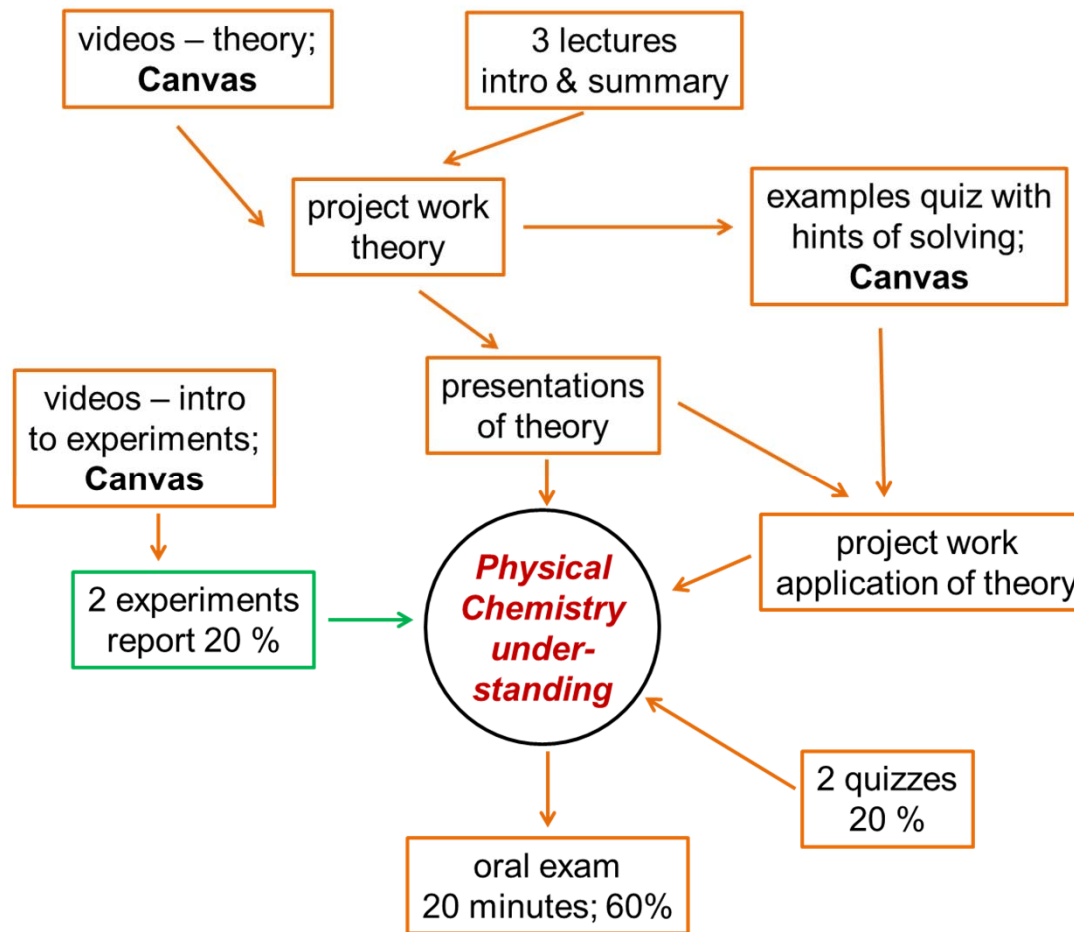
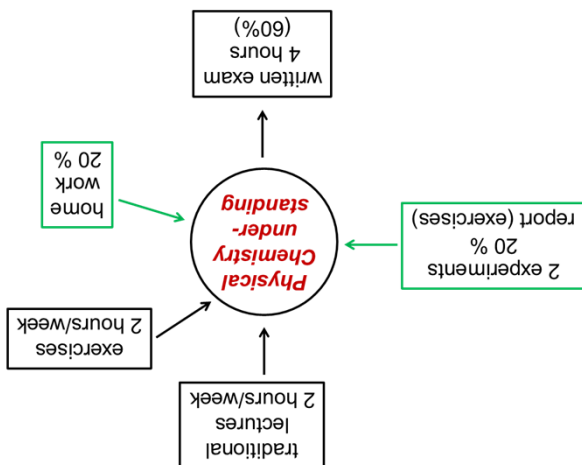
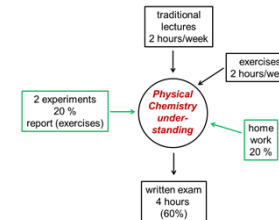
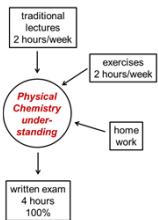
DTU LearningLab

- Sidsel-Marie W. Prag
inspiring and helpful discussion / reorganization of the course
- Bjørn Thorup / Aske H. Fabech
video production
- Financial support (DTU) for the development of e-learning / experiments (Febr. 2014)
(experimental equipment; teaching assistant)

Development - I

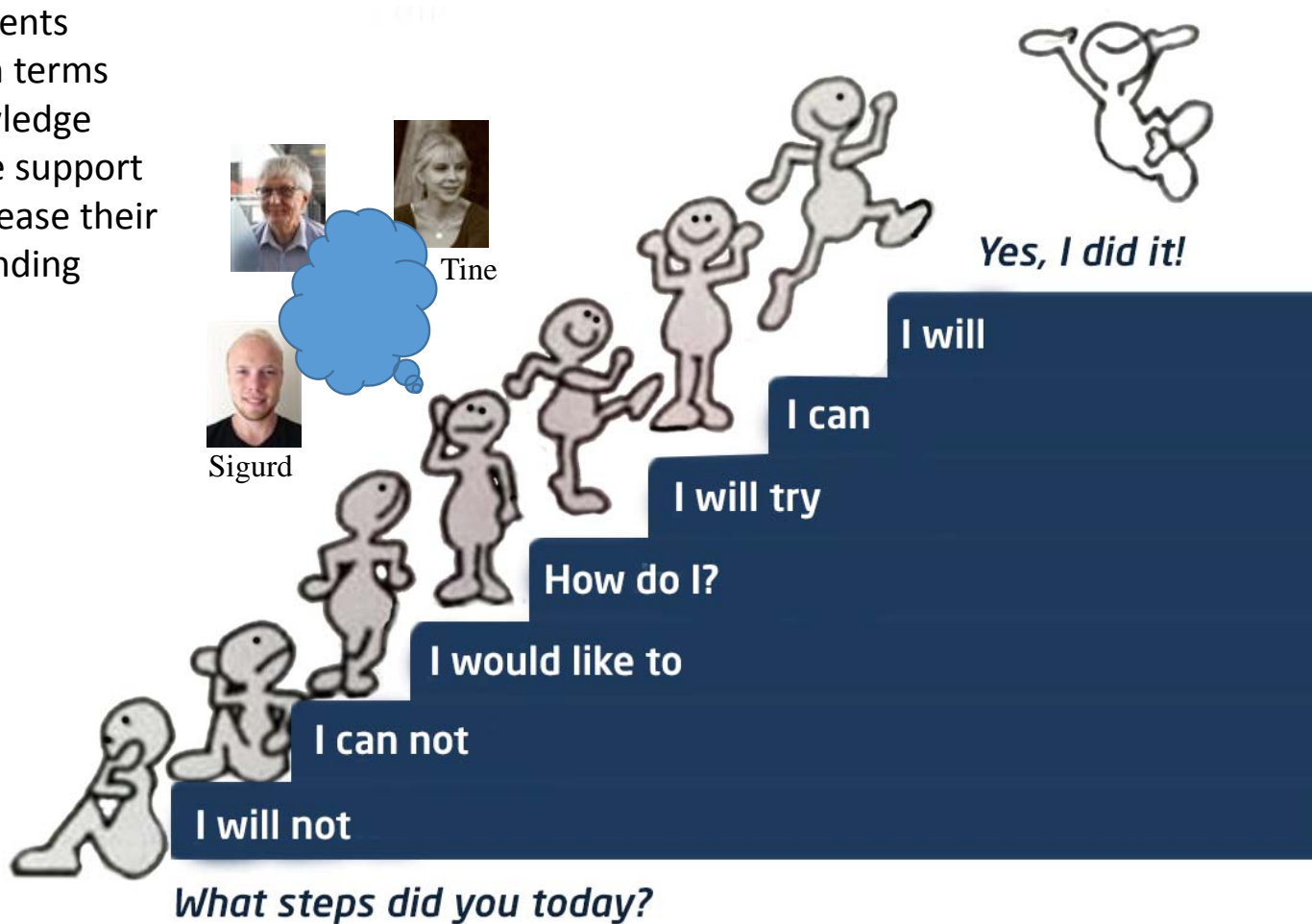


Development - II



First lecture

Meeting the students where they are in terms of scientific knowledge and providing the support they need to increase their level of understanding



Structure



- Project work
- Presenting presentations
- Exercises covering aspects
- From different study lines

- Lecture
- Exercises

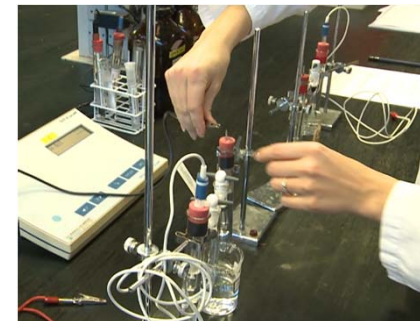
- Oral Exam individual (60%)

- 2 Quizzes individual (20%)

- 2 Experiments; group
- VIDEO
- Journal / Exercises (20%)

- Lecture
- Exercises

- Project work
- VIDEO
- Theoretical questions
- Preparing presentations



Feedback

2016

- He is very good at explaining when you do not understand the subject.
- Continue the good work.
- I would like to have more permanent lectures, as one can easily lose focus on group presentations
-I miss a more detailed review of how we can use the formulas.
- ... more structured lectures.
- I think you do a good job as a teacher, and it has been a good course.
- I would have liked that there were a few more lectures on your part before the group.
 Otherwise, I think it's fine that you're trying to mix the teaching methods.
- The two quizzes during the course, I also think is a good thing.
- Quizzes were more difficult than the assignments preparing for the quiz.

44%