

Learning path of implementing inquiry based teaching and its assessment in a science teacher team

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How to assess attitudes and skills in the science lessons?



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Lab work	
Cover page lab work	Assessment of attitude

General objectives

- **RESEARCH QUESTION**
- To reduce a scientific problem to a research question and if possible to formulate a hypothesis or research suggestion about this question.
- TO INFORM (2)

Gathering and structuring information about a research question. 3 TO EXECUTE



Current situation: system is applied

Systematically finding an answer to the research question.

TO REFLECT (4)

Reflecting on an observational assignment / experiment/research and its results.

TO REPORT (5)

Reporting on an observational assignment/experiment/research and its results.

Current situation: started 2012-2013, piloting

Findings

Conclusion of teacher team Teamwork **Conclusion of pupils** Tool is useful: Pupils are able: Chemistry • to map the scientific **6th grade** reasoning progress of pupils

 to adjust themselves by means of frequent feedback

- to guide the pupil in finding the branch of study that suits his/her interests and abilities
- to have the pupils acquire practical abilities and capacities from novice to expert level



- to understand the importance of peer- and self assessment
- to visualize their own progress

Discussion

Inquiry based teaching stresses the importance of learning trajectories (from 1st to 6th grade) The current system focuses on the assigning of scores

disadvantages: time-consuming, class size,



Conclusions

- Implementation of Inquiry Based Teaching in science offers many advantages in the assessment of attitudes and skills.
- This system requires team spirit and determination.
- The method has been recently developed and can further be optimized by means of feedback and input of a team of teachers and counsellors.
- Assessment of Inquired Based Teaching is a necessity for the future.

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