

Action Research in Science Education

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Action Research in Science Education

Action research is a process initiated to solve an authentic problem in any societal practice through research activities.

Action research is a process of actively participating in a change situation in practice whilst conducting research.

Action research is done by practitioners working in teams and with others (e.g. external researchers and curriculum developers) to form communities of research-based practice.

Action Research develops and refines cyclically new courses of action to help a practitioner community for more advanced work practices.

Action Research in 1946 was defined by Kurt Lewin as “*a comparative research on the conditions and effects of various forms of social action and research leading to social action*” that uses “*a spiral of steps, each of which is composed of a circle of planning, action and fact-finding about the result of the action*”.

Action Research in Science Education



Action research in science education can focus: the curriculum; the pedagogy; the use of different media; practical work; implementing ICT; the teachers teaching competencies; innovating teacher education courses; ...

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Within the workshop we will evaluate, discuss and compare different strategies of Action Research:

- Introduction practitioners towards teacher-centered Action Research as part of a CPD program in Israel
- Participatory Action Research for collaborative curriculum design in science education in Germany
- The use of Action Research for school development and innovation in Austria

