

# Methodology of pedagogical research and evaluation:

## 3. Pedagogical research

### Methodological Concept for Effectively Supporting Key Competencies Using the Foreign Language ATCZ62 - CLIL as a Learning Strategy at the College



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# Clarifying the concept of research and pedagogical research

*Research* systematically and critically examines reality in order to confirm or disprove the findings of the past, or to discover and gain new knowledge.

*"Pedagogical research* is an activity aimed at creating an organized amount of scientific knowledge about the phenomena that pedagogues deal with."

*By pedagogical research*, we obtain practical data applicable in pedagogical theory.

# Kinds of pedagogical research

according to the following factors (Průcha, Gavora):

✓ **Degree of generality:**

- *basic* – research, the aim is to enrich knowledge, solve key problems,
- *applied* – the aim is to use the results in practice, to solve specific problems of practice.

✓ **Relationship to reality:**

- *theoretical* –uses abstraction, analysis, synthesis, models, etc., does not work with specific data,
- *empirical (practical)* –Connection with practice, reality, exact methods, specific knowledge.

✓ **basic paradigm:**

- *quantitative* – exact methods, hypothesis validation, statistical tools, number,
- *qualitative* – description, experience, disability, quality of the phenomenon.

# Kinds of pedagogical research

## Focusing Usage:

- *Action* - responds to a particular need, to a partial problem of practice; Direct to practice; They are addressed by teachers, directors; At school, in the county,
- *Strategic-conceptual* - the basis for decision-making and long-term planning, theoretical but based on empirical research, directed more generally and with a wider time horizon.

## Complexity of clarification:

- *Monodisciplinary* - uses the theories and instruments of one discipline,
- *Interdisciplinary* - integration of knowledge and approaches of multiple disciplines

- *Transdisci*



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problem consists of a mosaic of views

## Purposefulness:

*Descriptive* - characterizes, describes the state,

*Diagnostic* - characterizes the state (level, causes) and gives recommendations,

*Explorative* - heuristic, revealing of new,

*Explicative* - what is and why, verifying hypotheses,

*Evaluation* - evaluate.

## Environment of research implementation:

- *Laboratory* - realized in laboratory conditions,
- *Terrain (natural)* - directly at schools, eg School Ethnography.

## Duration:

- Short-term



- Long (long)



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City long duration of research.

## **Research approaches and methods:**

Experimental - verifying scientific hypotheses,  
Observational – observation,  
Longitudinal - long-term,  
Cross-sectional - long-lasting cross,  
Comparative - comparative,  
Historical - exploring the phenomenon in the past,  
Prognostic - theoretical investigation,  
Intercultural - intercultural.

## **Degree of subject disability:**

*Partial* - in-depth, partial, special,  
*Complex* - view from different perspectives, multidisciplinary.

## **Approach, procedure:**

*Ex post facto*,  
*experiment*.



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# Basic characteristics of pedagogical research

- It is scientific activity,
- The subject is an educational reality,
- Includes different approaches and methods of exploration because of the complexity of educational reality,
- Systematically describes and analyzes pedagogical reality,
- Is organized and institutionalized,
- Is based on a certain theory,
- Has its ethical rules.



# Pedagogical & Action Research

- **Pedagogical research** is focused on pedagogical reality, which is any situation or environment where certain educational processes and phenomena are taking place and functioning:
  - *School education* (pupils and teachers in education),
  - *Sports training* (trainer - athlete, specific environment),
  - *Learning mother tongue* in small children (child, mother, other adults, ...).
- **Action research** builds on the immediate needs of practice and its results are immediately applied.