What is research?

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Research is an attitude

It is not just what you do, but also what you are

You do research because you are a researcher





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Research is....

A systematic way to observe, describe and analyse real life experience in order to extract useful knowledge from it.



Daily life information is confusing

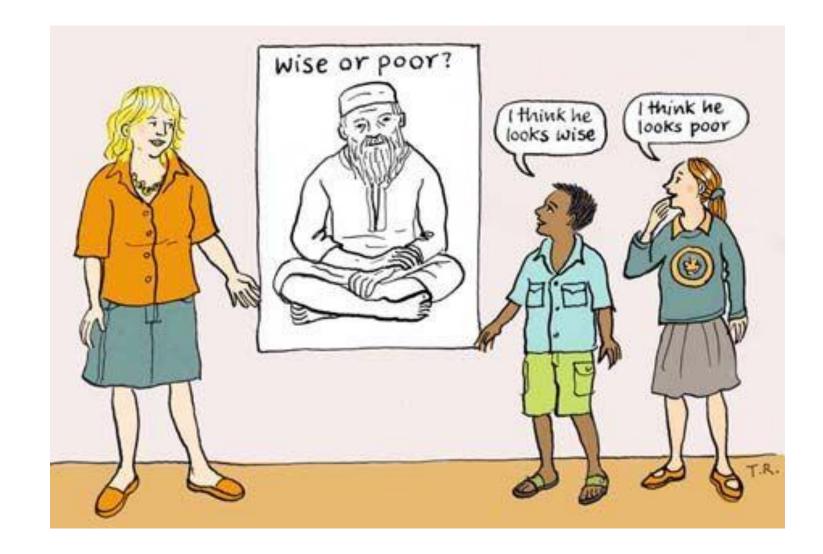
- In old times people though that the Earth turned around the Sun
- Some years ago people believed that autism was a problem related to non-effective mother child connections
- Some people believe that deafblind children are totally deaf and totally blind

Where does our knowledge usually come from?

Experience – "It worked with another child, I will do the same with this child". Authority –"The doctor said that my child needs to have speech therapy" Deductive Reasoning – "Hearing is necessary for speech. If a child cannot hear he cannot speak."

Inductive Reasoning - "this method worked for this child. I should use it for all children. (attempted generalization) The Scientific Approach - a combination of thorough and systematic use of experience, authority, deductive and inductive logics to explain a phenomenon.

We tend to see things differently



What is happening here?



Why do we need to research?

- We do not know enough
- We need to discover new knowledge
- Development and evolution depend on research

To be a researcher, one need to be curious



Observe

Ask your self questions about what you see

- Try to find answers to your questions
- Read what other people have said about the topic

If you do not find an answer to your questions you may have found a research topic !

Research starts with a question

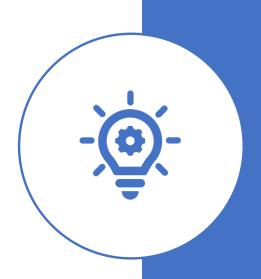


What is a good research question?

A question that answers your curiosity

• A question that contributes to improving knowledge in the field

• A question that contributes to improving quality intervention



Not all questions are good research questions!!

- How do people with Db communicate?
- Too wide
- A lot has been studied already
- "People with Db" is not an homogenous group

. Is sign language useful for people with MDVI?

- . Problems with sample definition
- . We already know that sign language is a useful way to communicate
- . But we also know that now all people with MDVI are able to use formal language

A good researcher

Logical reasoning

Systematization



Research question: How does this community define research?

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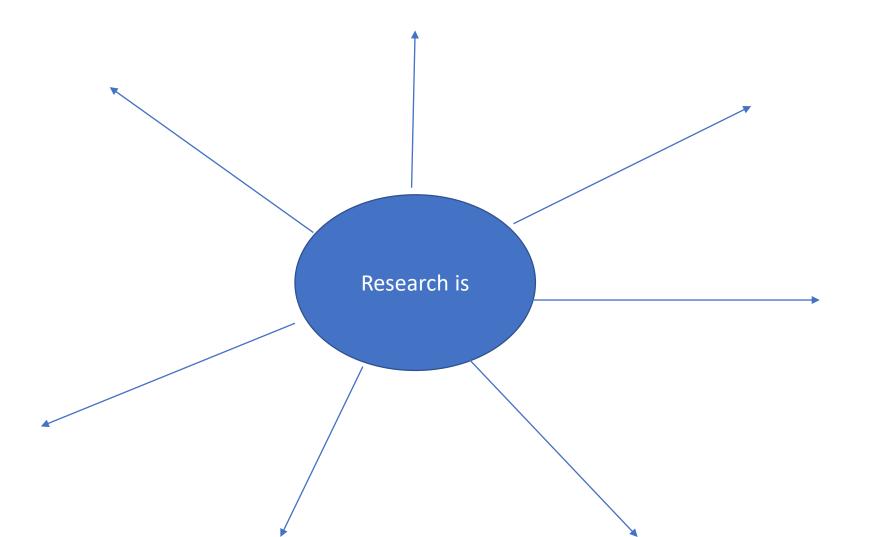
Is this a useful question? Is it clear?

OK, we have a question. What next?

We need to find a way to know what people think about research

How are we going to collect this information?

Data collection methods: Focus group/ concept mapping



Data collection methods interview

General open question

- Please tell me what is your definition of research.
- Probing questions (*if necessary*)
- Can you explain your idea a bit further?

Data collection methods Questionnaire - Multiple choice

- Research is:
- A..... a process that helps you get a degree
- B..... a statistical process
- C.....a systematic description of what you already know
- D.....a process of gathering information
- E.....a way to learn new methods
- F..... a process of inquiry that leads you to new knowledge

Ways to analyse data

- Quantitative methods numbers
- counting
- statistics

- Qualitative methods words
- Thematic analysis
- Content analysis

What do you do with the information?

- Summarize it
- Read your results and compare what you found with what is already known
- Discuss it with a research colleague
- Review your summary
- Write conclusions
- Publish your study

Research is also a competency

- We need to know the fundamentals of research (types of studies, methodologies, etc)
- We need to have skills to collect and analyse data
- We need an attitude of permanent curiosity and neutrality over data

Back to our initial question: what is research?

The ability to produce new knowledge

The ability to read and interpret other people's research

Knowledge and skills on how to collect and analyse data in a systematic way

The ability to read your results according to what you already know

An attitude of ongoing curiosity

How does being a researcher help teachers?

It helps develop a systematic way of thinking

It helps describe and analyse assessment data

It helps support decisions through the use of evidence -based information

It helps write organized reports

It helps provide evidence-based arguments

Final question

What do you need to do to become a researcher or improve your researching abilities ?