

**Good research is based on honesty!**  
(ECoC 2017, p.4)

## Description and background

This learning unit:

*Enables an understanding and usage of research results in our knowledge-based society*

*Introduces citizens and future scientists to research and to producing reliable research results*

*Challenges citizens to demand compliance in research*

*Emphasises how important responsible conduct of research is for society*

### Role Model

### Keywords

*This unit has been prepared for non-disciplinary learning groups.*

## Learning Objectives

- 1** *Describe the values of a researcher*
- 2** *Outline reasons for conducting reliable research*
- 3** *Argue in favour of the importance of reliable research results for both research and society*

## Learning Stages

- 1** *Introduce the topic*
- 2** *Collect your experience*
- 3** *Motivate students by connecting the examples to your lives*
- 4** *Engage in storytelling*
- 5** *Reflect on rules for research in society*

## “Quote about Research Procedure”



## 1 Introduce the topic:

*Homework (before the unit starts) or reading session*

Fill out the survey (QR code right).

Evaluation of  
learning units



## 2 Collect your experience:

As a class, discuss how sure and unsure you were in your survey answers. In what way(s) do you think the cases from the survey can be of importance to you? Review or look up the story from LONA Science Centre (video or text). What happened to the students in this story?

## 3 Motivate by connecting the examples to your lives:

Take a minute for yourselves to think about someone in your environment who used research results to argue in favour of something. Write down a description of that person and what they argued for.



## 4 Engage in storytelling:

### Introduce your character

In pairs, introduce your character to your partner. What did they use research results to argue in favour of? Explain whether this person is a researcher or whether they work in some other area of society.

### Imagine the worst

In a co-creative process with your partner, choose one of your characters and imagine a story in which the research results turn out to be fraudulent because the researcher who produced them had cheated. The story should include both the cheating researcher and your character. Include a person and/or a part of society that gets hurt due to the fraudulent results. Write down your storyline in bullet points.

### Turn it to the best

Now rewrite your story! Together, imagine that another researcher has stopped the cheating. Describe in detail what values this reliable researcher has and how your character is now able to use these reliable research results for their argument. Write down a short story in which a person and/or a group is able to advance because of the reliable results and the argument in favour of it.

### Read some of these stories aloud!

## 5 Reflect on reasons for reliable research in society:

**As a class, collect reasons to conduct reliable research on a chalk board or flip chart. Discuss why it is important that researchers follow rules!**

Mark four significant reasons from your collection as to why researchers need to follow these principles. Write them in your notebook.



### Research principles are:

„Reliability in ensuring the quality of research, reflected in the design, the methodology, the analysis and the use of resources.

Honesty in developing, undertaking, reviewing, reporting and communicating research in a transparent, fair, full and unbiased way.

Respect for colleagues, research participants, society, ecosystems, cultural heritage and the environment.

Accountability for the research from idea to publication, for its management and organisation, for training, supervision and mentoring, and for its wider impacts.“ (ECoC, 2017, p.4)

