

Agenda for “Data Detectives 2”, for children aged 9-12 (3h)

Warm-Up Part 1	<p>Group Activity: Ask the group to cluster together according to the following questions:</p> <ul style="list-style-type: none"> • What have you eaten for breakfast today? • How do you usually get to school? <p>Then take a photo / photos of the groups and add it / them to the slides for after the next segment.</p>	10 min
Data	Theoretical Input: Introduction to data and how to visualize data, based on the slides. Encourage interaction with participants by asking questions, and let them share their knowledge.	10 min
Warm-Up Part 2	<p>Group Activity: Show the previously taken photo(s) to the group. Ask them if the different groups are easily distinguishable (works best if they are not). Then ask for ideas how to improve that. Finally, ask to form rows based on the same questions as before:</p> <ul style="list-style-type: none"> • What have you eaten for breakfast today? • How do you usually get to school? <p>Then take a photo / photos of the groups and add it / them to the slides for after the break.</p>	5 min
Break	Short break after the first theoretical part. This also gives time to prepare the next step (add photo to slides).	10 min
Warm-up Discussion	Group Activity: Show the previously taken photo(s) to the group. Explain how the rows are easier to compare / interpret than unordered clusters and relate to bar charts.	5 min
Climate Change	Theoretical Input: Introduction to climate change, based on the slides. Encourage interaction with participants by asking questions, and let them share their knowledge.	15 min
Introduction Detectives	Briefly introduce the idea of this workshop being part of a „data detectives course“. Hand out the “data detective ID cards” and give a first stamp for the theory parts. This also serves as a short break, as no real “content” is taught.	5 min
Detective Story	Group Activity: Present an already solved case (see slides) but let participants actively take part in solving it. This prepares them for the cases they will solve themselves.	20 min
Break	Short break before the actual “work” starts.	10 min

Detective Cases	<p>Hands-On Projects: Split up the group in three smaller groups. The groups rotate through the three provided projects (see separate material). Each group should be supervised by one instructor, and all children should be encouraged to participate, as the group solves the case together.</p> <p>In the last project, allocate some time towards the end to prepare a presentation (could be a poster, but that takes more time, but at least agree on which participant will say what).</p> <p>The projects can be adapted to participants' age (e.g. more data physicalization for younger participants).</p>	70 min (20/20/30)
Presentations	Group Activity: Each group briefly explains their last case and how they solved it.	15 min (5/5/5)
Wrap-Up	To end on a positive note, collect ideas what participants could do to mitigate climate change (e.g. public transportation, plant-based diet, reduce packaging and other waste, save energy).	5 min

Slides: Data-Detectives_Slides_German.pptx, full deck

Data Detective ID inside (cover removed due to logo copyright issues):

Translation:

Name	Name
Theorie	Theory
Vorlesung	Lecture
Daten & Visualisierungen	Data & Visualization
Klimawandel	Climate Change
Abschlussprüfung	Final Exam
Meine gelösten Fälle:	My solved cases:
Murmeltiere	Marmots

Projects:

- Boat
- Dinner
- Glacier