



C - Protecting data - Smart Home Challenge

Lesson plan for the subjects:

Economics, media education, community studies/social studies/politics

Taught Topics	<i>According to Curriculum Topic Block C - Protecting Data:</i> ● C.1 Identity management, in particular awareness of data use: “Regularly question how and where personal data is used and shared and what risks are involved.”
Target Group	Students from 13-16 years of age (Grades 8 to 12, depending on school type)
Subjects	Economics, Civics, Social Studies, Politics, Media Education
Group size	Standard class size, approximately 25 students
Helpful prior knowledge	● Experiences with Smart Devices/Smart Devices ● Understanding the connectivity of smart devices (apps, Bluetooth, Wi-Fi)
Lesson Duration	90min
Learning Objectives according to DataPro Curriculum	● C.1 Identity management ● C.3 Awareness of online traces
Technical requirements	● Projector ● Laptops/ Notebooks or Tablets for students to play Smart Home Challenge



Media from DataPro	Freely available on our website at “DataPro Webgames” https://www.datapro.education/datapro-webgames/ • PowerPoint slides (customizable) for structuring the teaching unit (see timetable) ‘C - Understanding risks online with the Smart Home Challenge’ • Worksheet “Webgames” – individually applicable • Data Footprint Calculator English: https://ppiippaa.github.io/datapro-datafootprint/ ○ For other languages, check the calculator’s versions in our ‘tools’ section https://www.datapro.education/tools/ Web game Smart Home Challenge: https://dataprogames.ph-freiburg.de/
Lesson Plan	• Introduction: Ask students about their “digital footprint” – then let them compare their results from the DataPro <i>Data Footprint Calculator</i>. Exchange in plenary. • Individual Task: Task variant 3 of the related Worksheet ‘DataPro Webgames’ • Group Task: Pairs of students draft a ‘books of friends’ entry for their partner with the information they have collected prior in Task 3) of the worksheet. They should now critically reflect on and contextualize shared personal information. • Plenary Dialogue (Teacher&Students): Reflection on possible risks of data collection through apps or online services • Reflexion through Play: Play DataPro web game “Smart Home Challenge”. Teachers are advised to review the game guide beforehand. • Conclusion: Plenary feedback and reflection of what has been learned and played



DataPro Syllabi

Data Protection Methods

Workpackage 2

Institution | Freiburg University of Education

Project | DataPro

Dissemination level | public
July 2026

Date of submission | Deborah Krzyzowski

Main authors |



Co-funded by
the European Union

Disclaimer

Funded by the European Union. Views and opinions expressed are only those of the author(s) and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.