



A - Understanding Digital Business Models with the Smart Home Challenge

Lesson plan for the subjects: Economics, Media Education, Civics/Social Studies/Politics

Taught Topics	According to Curriculum Cluster A – Data as Capital: • Data permissions and data collection by digital platforms • Personalized data profiles • Business models of digital platforms and providers: How is data monetized? • Concept of IoT (Internet of Things) • Developing awareness of data minimization strategies
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	• Knowledge of data collection on digital platforms • Experience using smart devices • Understanding of smart device connectivity (apps, Bluetooth, Wi-Fi)
Learning Objectives according to the DataPro Curriculum	• A1 – Understanding data as currency • A2 – Understanding security risks, especially data minimization: critically assessing the necessity of storing and sharing personal data • A3 – Recognizing business interests and understanding the data economy
Lesson Duration	90min
Technical Requirements	• Projector • index cards / post its in two different colors • Laptops, notebooks, or tablets for students (check for compatibility with the Smart Home Challenge prior to class)



DataPro Media	Please find following material on our respective website see https://www.datapro.education/datapro-webgames/ • PowerPoint slides 'A – Understanding Digital Business Models' (customizable) + Associated worksheet 'DataPro Webgames' (editable) • DataPro Conversational Agent for secure student research https://datapro.cyber-geiger.com/ • Web game Smart Home Challenge: https://dataprogames.ph-freiburg.de/
Lesson Plan	• Introduction: Brainstorming on an IoT cartoon; students reflect on interconnected smart devices and their own use of 'free' platforms, especially social media. • Group task: Complete worksheet task 1 on data permissions of digital platforms; supplement with creating a quiz using the DataPro Agent. • Teacher-student discussion: Create a flowchart based on task 1. • Optional extension: Worksheet task variants 2 or 3. • Discussion: Which types of data are especially sensitive? Do you use smart devices? What would you do if you had a smart home? • Individual task: Play the DataPro web game 'Smart Home Challenge'. Teachers are advised to review the game guide beforehand (available on the website) • Conclusion: Feedback and reflection in plenary; students report which protective measures they learned and intend to implement.



DataPro Syllabi

Daten as Capital

Workpackage 2

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