

How can we ensure that students apply science to their lives?

ENGAGE aims to help students **analyse emerging issues** and **develop informed opinions** on science and technology. To do this, ENGAGE provides teachers with innovative curriculum materials and professional learning.



The Engage “RRI” curriculum

ENGAGE is part of the Responsible Research & Innovation (RRI) agenda to help Europe respond to societal challenges. We are equipping students to **evaluate claims**, **weigh up science & values**, **argue opinions** and **compare solutions**.

Enquiries into life-changing **Science**

Cutting-edge **Science** and **Technology**

COLLABORATIVE LEARNING for **TEACHERS**

Curriculum Materials to get students to talk and think



engagingscience.eu



Research-based curriculum materials

to help students learn how to analyse science and technology issues

60 inspiring dilemmas



Ban Coke?

Science: Health; Skill: Critique Claims

Now that scientists have discovered that sugar is like an addictive drug, pressure is building for action to reduce the amount of sugar children consume in soft drinks. What is the evidence for causal links between sugar consumption, obesity and disease? Is there enough strong evidence to ban sugary drinks?

20 problem-solving sequences

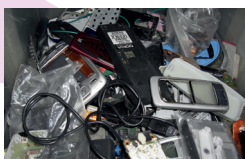


Two degrees

Science: Climate; Skill: Examine consequences

World leaders are meeting at the COP21 conference in Paris to discuss how to stop average global temperatures from rising over 2 degrees, preventing catastrophic consequences. In this sequence students create an apocalyptic weather report showing the possible effects of climate change and then learn how to examine consequences of actions to help them to decide how they would save the world

10 open-ended scenarios



Electronic waste

Science: Global Issue

Entrepreneurs import 200 000 tonnes of electronic waste every year. Recycling workers make money, but pay with their health. Think twice: do you need that new device?

What are the impacts of recycling electronic waste?

Students use the sources of information and their RRI skills and communicate their decision creatively. We want to collect their work for the web site and the conference.

6 Teaching Tools

Practical strategies for using socio-scientific issues as a curriculum approach

- **Dilemma** and **Problem-Solving** to make learning authentic
- **Group Discussions** and **Conversations** to build reasoning and understanding
- **Scenario** and **Performance Assessment** to develop knowledge and skills

4 Integrated components

Workshops, Online Courses, a Community and the Materials work together to build expertise



Workshops

Learning from experts in socio-scientific teaching, explore all the ENGAGE components, and practise using the curriculum materials and Tools.



Online Courses

Flexible, inquiry-based modules for 'just in time' learning based on a cycle of conceptual input, classroom practice, reflection, and peer collaboration.



Community

Q&A support from project teachers, scientists and curriculum specialists on how to get the most from of the materials.



Curriculum Materials

Dilemmas to teach and apply science in society knowledge and inquiry, and open-ended projects to interact with scientists.