

Waist Deep in Waste – Necessity or Irresponsibility?

Developer: Jack Holbrook

Institute: ICASE

Country: UK

Subject: Biology/Chemistry/Physics/Science

Grade level: 10-11

Overall Objectives/Competencies: The students are expected to:

1. decide, with justification, the most appropriate way to deal with plastic waste
2. classify plastics as thermoplastic or thermosetting
3. design and carry out an experiment to test gases liberated when plastics are heated and identifying the products formed.
4. carry out a survey and analyse, organise and critically evaluate findings.
5. cooperate by discussing meaningfully, listen to others opinions, and reach consensus in a group
6. communicate effectively using language skills and appropriate visual aids and present the findings from the survey in a meaningful way to the class
7. explain the term plastics and the classification into thermoplastic and thermosetting.

Curriculum content: Meaning of plastics, meaning of thermoplastics and thermosetting plastics, products from burning plastics.

Kind of activity: Designing, administering and analysing a survey among households, designing and carrying out experiments, decision making discussion.

Anticipated time: 4 Lessons

Abstract:

This module highlights the problem of plastic waste and the effects it has on the community. It tries to find a solution to the problem.

Attached files		
1.	Students' activities	Students activities in a separate file
2.	Teaching guide	Teaching guide in a separate file
3.	Assessment	Assessment tool linked to teaching in a separate file
4.	Teacher's notes	Teacher's notes in a separate file