

LEVEL	3
LEARNING OUTCOME	LO2: Students can follow the principles of sustainable development and environmental system management
SPECIFIC LEARNING OUTCOME	Students can apply concepts of sustainable development and environmental system management to address sustainability challenges in a global context.
KEYWORDS	Environmental system management, problem based learning
INTRODUCTION	Students analyse the life cycle of a product, here a smartphone or avocado. They give recommendations to make the product or business model more sustainable.
HOW TO WORK WITH THIS MATERIAL	In this learning material, students deal with a complex problem using Problem Based Learning. Based on a few example case studies, students collect information on how a product is made and what happens after it is discarded. Subsequently, they formulate advice on how to improve the overall sustainability of the product.
TIMING	2,5h



3.1.3 SPECIFIC LEARNING OUTPUT:

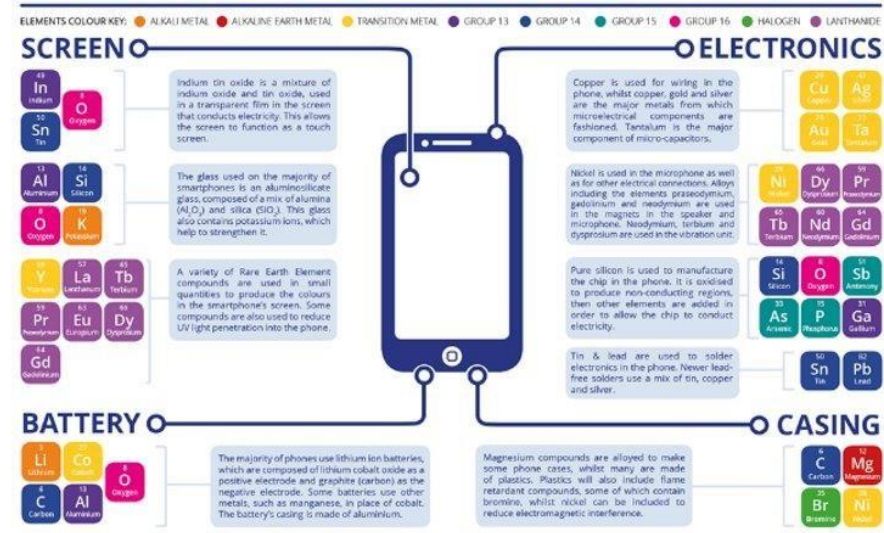
The student can apply concepts of sustainable development and environmental system management to address sustainability challenges in a global context.



Introduction and theory:

Students analyse the life cycle of a product, here a smartphone. They give recommendations to make the product or business model more sustainable.

ELEMENTS OF A SMARTPHONE



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Exercises:

In this learning material, students deal with a complex problem using Problem Based Learning. Based on a few examples of case studies, students collect information on how a product is made and what happens after it is discarded. Subsequently, they formulate advice on how to improve the overall sustainability of the product.

In the word file, you can find the instructions for the students. It is possible to do the exercise together with the students. You can use the PowerPoint presentation to go through the lifecycle of a smartphone or avocado.

Afterwards, students can do the same exercise for a product they choose by themselves. It is also possible to start immediately with the exercise. Let the students work in groups and make sure they have access to the internet to look up certain things.