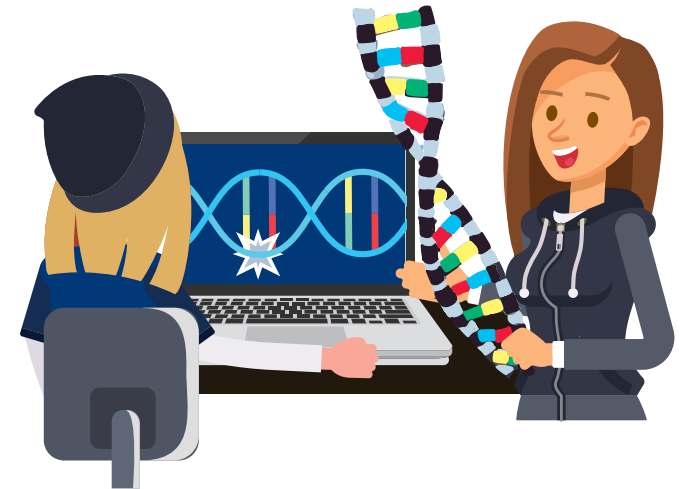




LIFE COURSES





LIFE COURSES

- In a LIFE Course, the school class works with inquiry-based science on real-world societal challenges
- We develop our courses together with scientists working in companies or research institutions
- The courses comply with the learning objectives for primary and lower secondary education or upper secondary education and support the UN Sustainable Development Goals
- The course can take place in the classroom and/or in one of our advanced LIFE Labs with LIFE teachers.

LIFE COURSES

PRIMARY AND LOWER
SECONDARY EDUCATION

A Course contains...



LIFE Kit with teaching materials



Digital platform



Additional teaching in a LIFE
Lab



MICRO SAFARI GRADE 1-2

Natural Sciences/
Technology



AUTOPILOT GRADE 5

Natural Sciences/
Technology and
Mathematics



ENZYME HUNT GRADE 6

Natural Sciences/
Technology



LIFE COURSES

PRIMARY AND LOWER
SECONDARY EDUCATION

A Course contains...



LIFE Kit with teaching materials



Digital platform



Additional teaching in a LIFE
Lab

12
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PLASTIC SOLUTIONS

GRADE 7

Physics/Chemistry,
Biology and
Geography



2
☀️

WEGROW

GRADE 8

Biology,
Physics/Chemistry
and Geography



3
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DEALING WITH CANCER

GRADE 8-9

Biology,
Physics/Chemistry
and Geography



LIFE COURSES

PRIMARY AND LOWER
SECONDARY EDUCATION

A Course contains...



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Additional teaching in a LIFE
Lab



TACKLING HUNGER

GRADE 9

Biology,
Physics/Chemistry
and Geography



TASTEMASTER

GRADE 10

Physics/Chemistry



AND MORE
TO COME ...

MICRO SAFARI

GRADE 1-2 - Natural Sciences/Technology

How can we protect insects and small animals in Denmark? Their populations are declining because they lack habitats.

- Students on Micro Safari will investigate biodiversity among insects and other small animals
- They will also learn about the anatomy of the animals and their habitats.





AUTOPILOT

GRADE 5 - Natural Sciences/Technology and Mathematics

Can self-driving cars solve the traffic challenges of the future?

- In this course students investigate the technology behind self-driving cars
- The students code robots and learn what considerations must be made before we unleash self-driving technology on our streets.



ENZYME HUNT

GRADE 6 - Natural Sciences/Technology

Enzymes can be used to make industrial production cheaper and more sustainable. Production companies are therefore constantly trying to find new enzymes they can use in their products.

- In this course students go on enzyme hunt to search for cellulase-producing fungi and grow the samples and examine them
- They learn about the use of enzymes as catalysts to produce denim trousers and washing powder in a more sustainable way.





PLASTIC SOLUTIONS

GRADE 7 - Physics/Chemistry, Biology and Geography

Plastics are used in large quantities world-wide because of their many good properties. But the plastic waste causes negative impacts on the climate and environment. We need to find solutions to the problem.

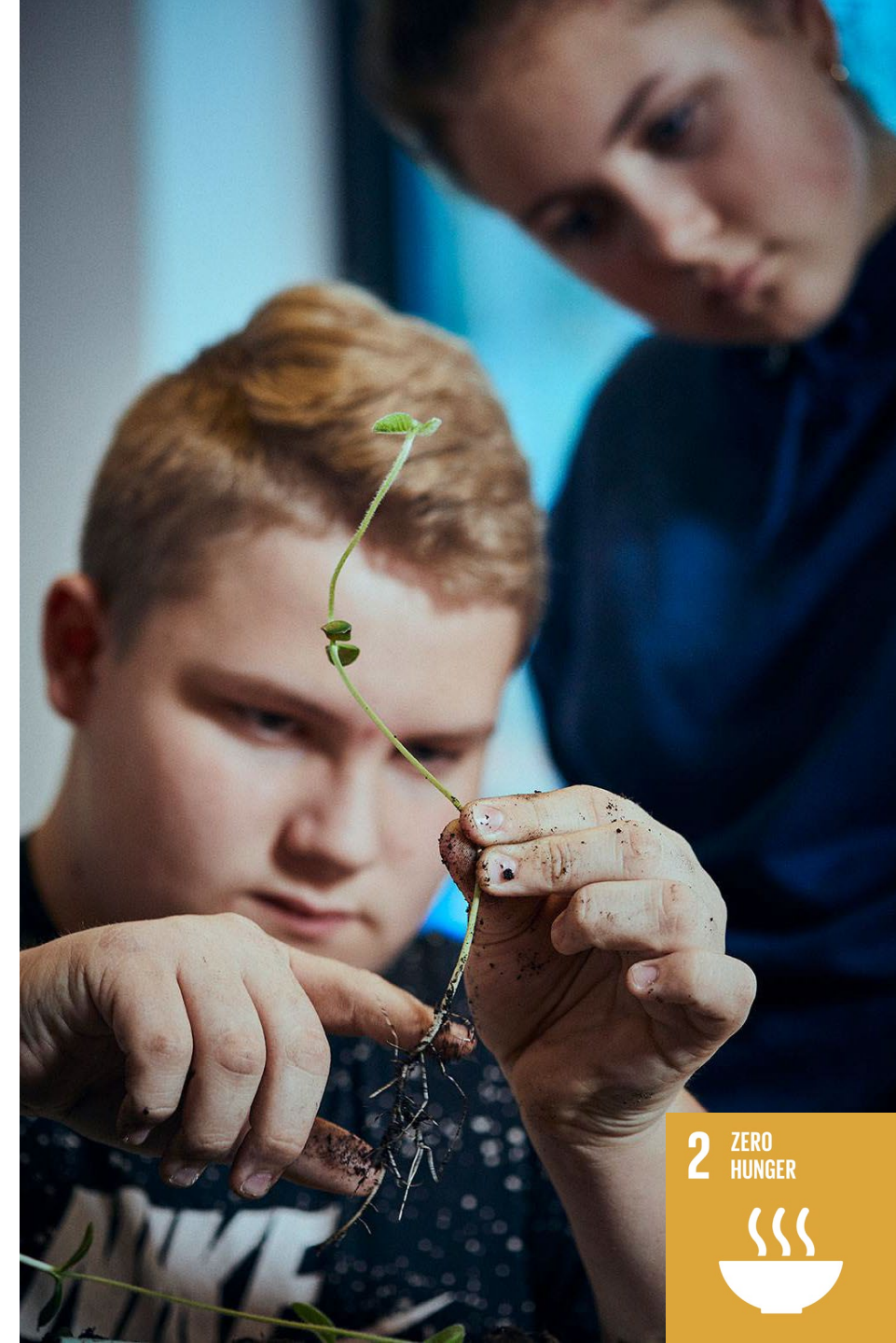
- Students learn about plastic composition, its impact on the environment, and its life cycle
- They explore sustainable options through activities like creating bioplastics and test durability
- Moreover, they learn how to assess environmental impacts using life cycle assessments (LCA) and make decisions for a greener future.

WEGROW

GRADE 8 - Biology, Physics/Chemistry, Geography

How do we tackle the challenge of feeding a growing global population in a sustainable way?

- Students explore the use of natural microorganisms and sensors to maximize crop yields. They learn about population modeling, agricultural land availability, growth experiments, sensor monitoring, and more
- They study the impact of microorganisms on plant growth, discover the potential of sensor technology in food production, and discuss challenges and solutions in global food production.





DEALING WITH CANCER

GRADE 8-9 - Biology, Physics/Chemistry, Geography

Cancer is the most common cause of death in Denmark. During the course, students investigate how cancer occurs and develop strategies to reduce our risk of getting it.

- Students will use DNA model building, data modeling and growth experiments to explore strategies for risk reduction.

TACKLING HUNGER

GRADE 9 - Biology, Physics/Chemistry, Geography

How do we feed the growing world population?
Tackling Hunger is a teaching course about catalysis, artificial fertilizers and sustainable production.

- In groups students manage their own country and their task is to ensure that their country's population does not starve
- They ensure this by producing enough food for everyone while minimizing negative impacts on the climate and environment.



2 ZERO HUNGER



12 RESPONSIBLE CONSUMPTION AND PRODUCTION





TASTEMASTER

GRADE 10 - Physics/Chemistry

How do we encourage people to eat healthier and follow the dietary guidelines? In TasteMaster students explore the physics and chemistry of food to promote healthy eating.

- Students discover the role of taste preferences, proteins, starch, and other factors in food by conducting experiments and analyzing sensory experiences
- They also explore the challenges of following dietary guidelines and learn practical techniques to make healthier food choices.

LIFE COURSES

UPPER SECONDARY
EDUCATION

A Course contains...



LIFE Kit with teaching materials



Digital platform



Teaching in a LIFE Lab

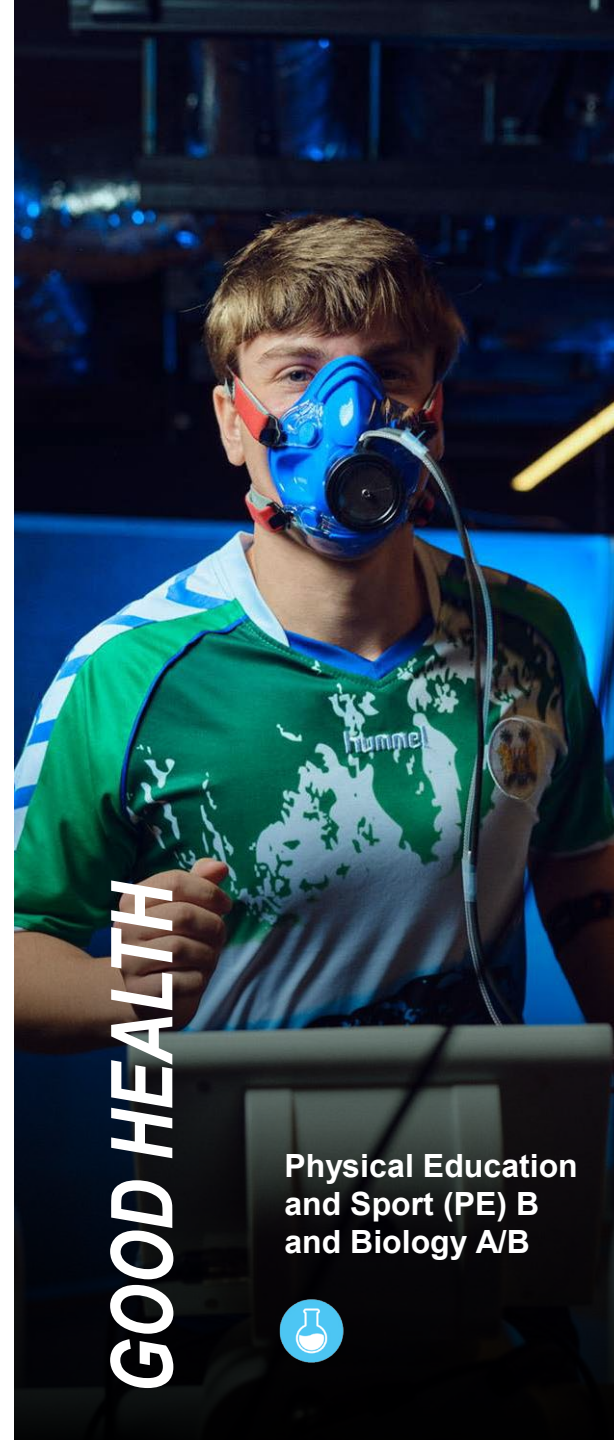
CLIMATE ACTION



Natural Geography B



GOOD HEALTH



Physical Education
and Sport (PE) B
and Biology A/B



FIGHT THE BITE



Biology B



LIFE COURSES

UPPER SECONDARY
EDUCATION

A Course contains...



LIFE Kit with teaching materials



Digital platform



Teaching in a LIFE Lab

EXTRACTORS

Chemistry B



AND MORE
TO COME ...

CLIMATE ACTION

Upper Secondary Education - Natural Geography B

Man-made climate change is a global challenge that is creating a need for local climate adaptive solutions. In their lifetimes, today's upper secondary students will need to be a part of these solutions.

- Students explore how floods can impact the future and discover ways to combat water-related problems
- They learn how to select appropriate solutions for their communities by using data and models and to communicate their findings effectively
- Overall, Climate Action empowers students to take action and find solutions to the challenges of a changing climate.





GOOD HEALTH

Upper Secondary Education -

Physical Education and Sport (PE) B and Biology A/B

Physical inactivity is a growing problem in Denmark and the rest of the Western world. Physical exercises are essential for our health. But when do you exercise enough and how do you stay motivated?

- During the course in our physiological laboratory, students will learn how scientists collect data and carry out data analyses within this field
- They will use their own body to do tests such as oxygen uptake, anaerobic work and body scanning.

FIGHT THE BITE

Upper Secondary Education - Biology B

Snakebites affect millions of people each year, causing significant harm and even death.

- Students explore methods to quickly identify snake venoms and improve treatment
- They also evaluate a prototype test called lateral flow assay (LFA) and examine the use of antibodies as antidotes
- Overall, the students engage in practical investigations to find innovative solutions for snakebite treatment in areas with limited healthcare.





EXTRACTORS

Upper Secondary Education - Chemistry B

In today's world, food and cosmetics rely on extraction processes to obtain additives that give them color, scent, and texture. However, these processes are resource-intensive.

- Students investigate how to optimize resource usage in the chemical industry
- By applying their knowledge of chemistry, students explore ways to reduce environmental impact while extracting additives used in food and cosmetics
- They also learn to consider customer demands and sustainability when designing the production process for the final product.