

A vibrant field of red poppies in full bloom, with many green seed pods still attached to the stems. In the background, a modern building with large glass windows and dark structural elements is visible on the left. The sky is a clear, bright blue with the sun shining in the upper left corner, creating a lens flare effect.

LIFE FOUNDATION

“

LEARNING. IDEAS.
FASCINATION.
EXPERIMENTS.

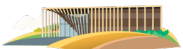
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A NATIONWIDE INITIATIVE

About LIFE

- The LIFE Foundation is a Danish non-profit foundation supported by the Novo Nordisk Foundation
- We develop and offer inquiry-based science courses which are freely available to all schools in Denmark.

Our locations



LIFE Campus, a learning centre outside Copenhagen



Five Mobile Labs



Four regional LIFE Labs





OUR MISSION

Our mission is to strengthen the interest and aspirations among children and young people for engagement, including an education, with natural sciences and technology.

OUR CORE NARRATIVE

We believe that scientific knowledge is important for all children and young people. It is, of course, associated with cold facts, formulas, and research, but it also shapes our identities and our communities as human beings.

When science and technology become a natural part of our general education, we can better understand the world around us, participate in democratic dialogue, and contribute to a sustainable future.



STRATEGIC FRAME FOR LIFE 2024-2028

Development of science courses

Repetitive
encounters with
inquiry-based STEM ¹
education

STEM in humanities
and social science
subjects to
strengthen general
education

Anchoring and reinforcing efforts

Competence
development among
teachers

Research-based
knowledge
translated into
practice

Agenda-setting
importance of
scientific and
technological
knowledge

1) Science, Technology, Engineering & Mathematics



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 and research institutions
- The courses comply with the learning objectives for primary and lower secondary education and upper secondary education
- 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

LIFE FOUNDATION

MICRO SAFARI GRADE 1-2

Natural Sciences/
Technology



SOLAR POWER GRADE 3

Natural Sciences/
Technology



THE SCIENCE HEIST GRADE 4

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

LIFE FOUNDATION



AUTOPILOT

GRADE 5

Natural Sciences
/Technology



SHARP CHOICES

GRADE 5-6

Food Education



THE ENZYME QUEST

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

LIFE FOUNDATION



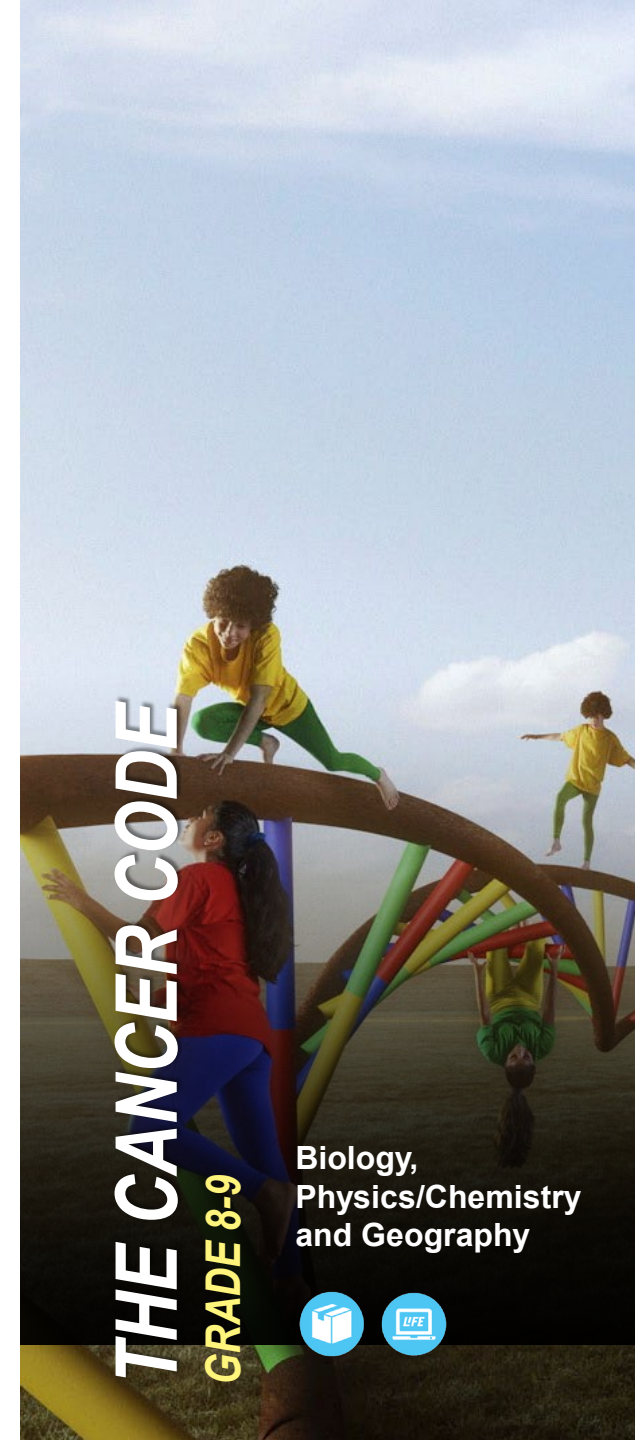
THE PLASTIC MISSION
GRADE 7

Physics/Chemistry,
Biology and
Geography



WEGROW
GRADE 8

Biology,
Physics/Chemistry
and Geography



THE CANCER CODE
GRADE 8-9

Biology,
Physics/Chemistry
and Geography



LIFE COURSES

PRIMARY AND LOWER
SECONDARY EDUCATION

A Course contains...



LIFE Kit with teaching materials



Digital platform



Additional teaching in
a LIFE Lab

LIFE FOUNDATION

FEEDING THE FUTURE

GRADE 9

Biology,
Physics/Chemistry
and Geography



TASTEMASTER

GRADE 10

Physics/Chemistry



WITH MORE
TO COME ...

MICRO SAFARI



GRADE 1-2 | Natural Sciences/Technology

How can we protect insects and small creatures 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.

SOLAR POWER



GRADE 3 | Natural Sciences/Technology

Robot vacuums, electric scooters, and smartphones — we're surrounded by devices that use electricity, and it's hard to imagine everyday life without them.

In Solar Power, students investigate what uses electricity in their daily lives and build simple electrical circuits.

They will also explore how a solar cell can be used in a lamp and determine when a solar cell works best.

THE SCIENCE HEIST



GRADE 4 | Natural Sciences/Technology

A heist has taken place at LIFE. Valuable documents belonging to the Danish scientist Inge Lehmann have been stolen.

In *the Science Heist*, students investigate clues from the crime.

Through a series of scientific investigations, they must gather evidence and answer the big questions:

Who committed the crime — and how can they prove it?

AUTOPILOT



GRADE 5 | Natural Sciences/Technology and Mathematics

Can self-driving cars solve the traffic challenges of the future?
In *Autopilot*, students explore the technology behind autonomous vehicles.

What is a sensor?

How do you code a robot to drive on its own?

And what should we consider before releasing self-driving technology onto our streets?

SHARP CHOICES



GRADE 5-6 | Food Education

Do you like carrots with parmesan?

We need to eat more vegetables — but how can we make them taste so good that we actually choose them more often?

In *Sharp Choices*, students experiment and taste their way to delicious dishes.

The school kitchen turns into a food lab as students crack the code to getting more greens on the plate.

THE ENZYME QUEST



GRADE 6 | Natural Sciences/Technology

Enzymes are found in your body and in nature, and many companies are working to discover new enzymes they can use in their products.

That's because enzymes can make products cheaper and more environmentally friendly to produce.

Just like the companies, students will now go on a quest for new enzymes!

THE PLASTIC MISSION



GRADE 7 | Physics/Chemistry, Biology and Geography

In the *Plastic Mission*, students step into the role of plastic manufacturers at a company that produces phone cases. Here, they're given a mission:

They must figure out how the company's production can become more sustainable!

WEGROW



GRADE 8 | Biology, Physics/Chemistry, Geography

The global population is growing, and by the year 2050, producing enough food for everyone will become a serious challenge — unless we find new solutions.

It's difficult to find more land for farming, but maybe we can grow crops in a smarter way?

In *WeGrow*, you and your class will explore a sustainable method using natural microorganisms.

THE CANCER CODE



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

Cancer is a complex disease. We need to understand more about the mechanisms behind it — how cancer starts, develops, and spreads.

That's exactly what students in 8th and 9th grade will investigate in this cross-disciplinary science course.

FEEDING THE FUTURE



GRADE 9 | Biology, Physics/Chemistry, Geography

Feeding the Future is a teaching course about catalysis, artificial fertilizers and sustainable production.

In this course, students in groups each 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.

TASTEMASTER



GRADE 10 | Physics/Chemistry

How can we encourage more people to eat healthy and follow dietary guidelines?

Part of the answer might be found in the world of gastrophysics. In *TasteMaster*, students explore the physics and chemistry of food.

They'll get the chance to test different methods for changing the taste experience of vegetables, legumes, and water.

THE DANISH UPPER SECONDARY EDUCATION PROGRAMMES

The LIFE Foundation offers LIFE Courses within the following Danish Upper Secondary Education programmes:

The Higher General Examination Programme (stx)

The focus in the stx programme is on general education and general study preparation.

The Higher Preparatory Examination (hf)

The two-year hf-programme focuses on general education and broader areas of professional life.

The Higher Technical Examination Programme (htx)

The htx programme focuses on subjects related to the fields of technical sciences, natural sciences and informatics.



LIFE COURSES

UPPER SECONDARY
EDUCATION

A Course contains...



LIFE Kit with teaching materials

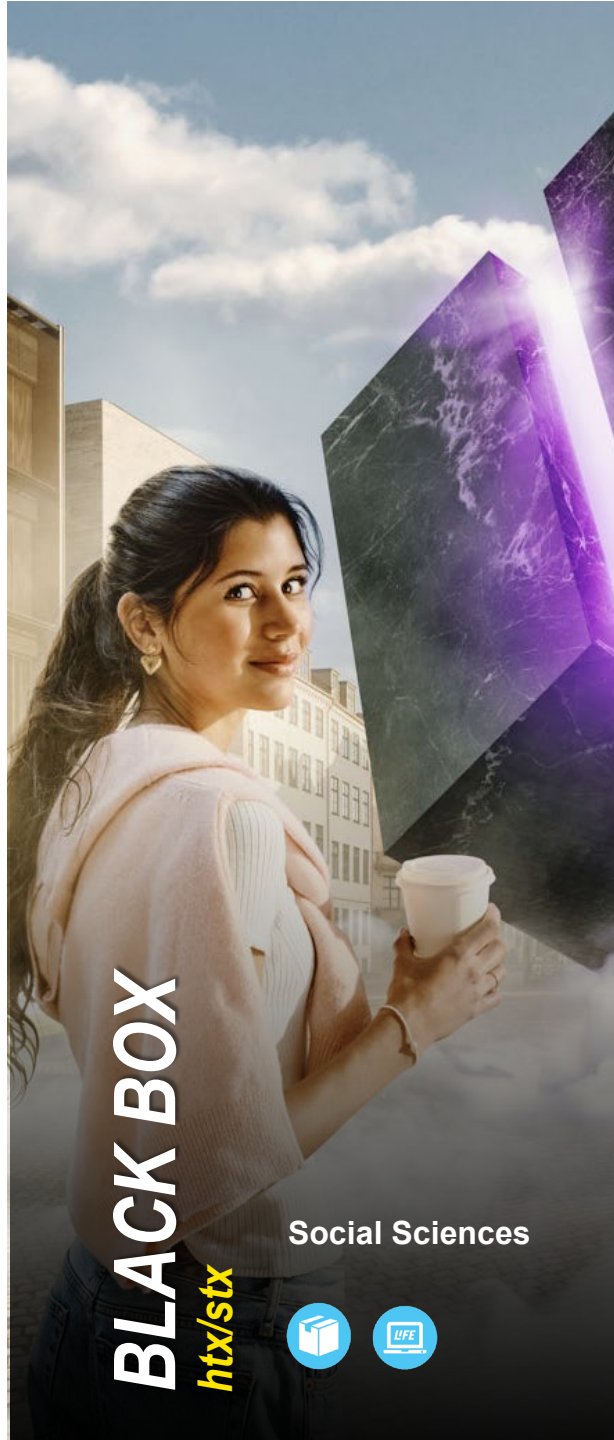


Digital platform



Teaching in a LIFE Lab

LIFE FOUNDATION



BLACK BOX

htx/stx

Social Sciences



EXTRACTORS

htx/stx

Chemistry B



FIGHT THE BITE

stx,/hf/htx

Biology B



LIFE COURSES

UPPER SECONDARY
EDUCATION

A Course contains...



LIFE Kit with teaching materials



Digital platform



Teaching in a LIFE Lab

LIFE FOUNDATION

LIFEBLOOD
htx/stx

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

UNBREAKABLE
htx/stx

Physics B

WATER CHALLENGE
stx

Natural Geography B

BLACK BOX



htx & stx | Social Sciences A/B

AI systems are becoming increasingly widespread in society. But how does this affect our trust in public institutions when AI moves in?

Does trust in, for example, the healthcare or tax system decrease if it's an AI that made the diagnosis or calculated your taxes? Or could it actually lead to greater trust?

EXTRACTORS



[stx/hf/htx](#) | Chemistry B

Imagine a world without taste, color, scent, or texture. Food and cosmetics would look completely different without additives extracted through the process of extraction.

But extraction is a resource-intensive process.

In *Extractors*, students plan and carry out their own experiment.

They investigate how changes in different variables affect an extraction — and then use their knowledge to optimize an industrial extraction process.

FIGHT THE BITE



[stx/hf/htx](#) | Biology B

Each year, 2.7 million people are envenomed by snakebites resulting in around 100,000 deaths, and with many more suffering life changing disabilities.

Yet the treatment of snake bites is essentially identical to the ones developed more than a century ago, leading to unnecessary suffering and deaths.

In Fight The Bite, students collaboratively explore how antibodies can be used for both diagnosis and treatment of snakebite envenoming, and why the treatment of some global diseases like snake bites is neglected.

LIFEBLOOD



stx/htx | Physical Education and Sport (PE) B and Biology A/B

In *LIFEblood*, students will experience firsthand how to measure and investigate physical health.

Over the course of a full day at the physiological laboratory on LIFE Campus, they will work as health researchers.

The students measure their physical condition and communicate their scientific knowledge and measurement results through recommendations on exercise, motivation, and health.

UNBREAKABLE



[htx/stx](#) | Physics B

Unbreakable encryption can protect state secrets – or conceal criminal activity.

Secure communication is of vital importance for remaining safe in a highly digitalized society like Denmark.

This course explores how emerging technologies may challenge the ability to communicate securely in the future.

Students investigate whether quantum communication can enable truly unbreakable messaging - and consider the ethical question: **Should everyone have access to it?**

WATER CHALLENGE



stx | 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.

Water Challenge is an opportunity to learn about possible local adjustments with a focus on flooding.

LIFE PLATFORMS

LIFE KITS



DIGITAL PLATFORM



LIFE LABS



LIFE CAMPUS





LIFE CAMPUS

Our headquarters near Copenhagen holds offices and a learning centre with four high-tech science laboratories for visiting school classes.

REGIONAL LABS

**SOUTH DENMARK
ODENSE**



**NORTH JUTLAND
AALBORG**



**CENTRAL JUTLAND
AARHUS**



**ZEALAND
VORDINGBORG**



With one more to come in West Jutland, Esbjerg ...

MOBILE LABS

MBL 1



MBL 2



MBL 3



MBL 4





LIFE FOUNDATION