



Official catalog

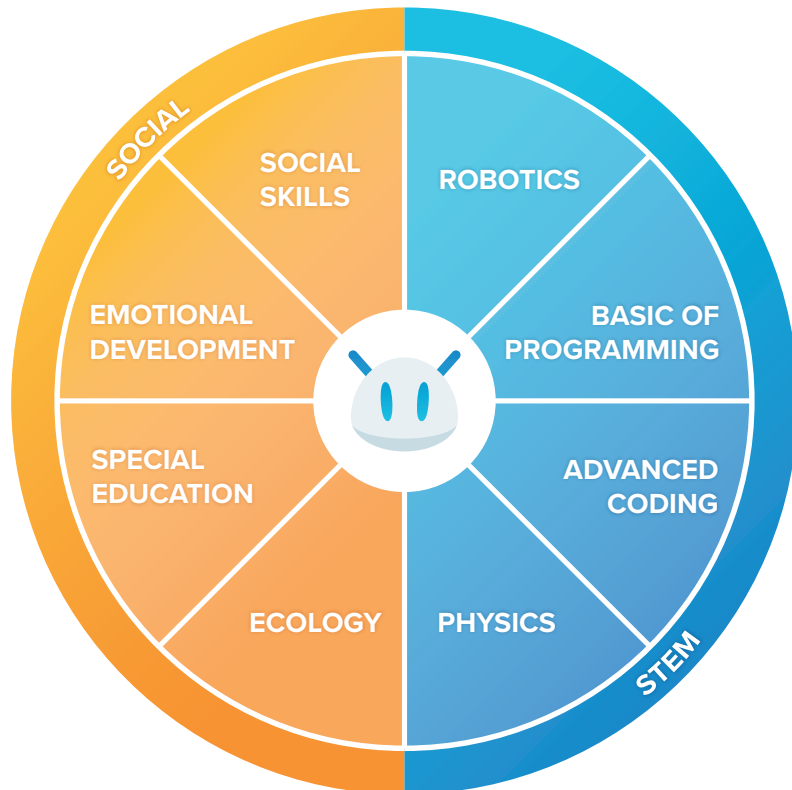
# Build your students' futures with Photon



## Our vision for education

We understand the crucial role of teachers in our society, and the impact they have on children, communities, and finally, the entire world. Our main objective is to facilitate the ever-important and often difficult work of educators by making their tasks more interesting, enjoyable, and lasting, allowing them to achieve their full potential.

Modern technologies are a non-negotiable element of all modern schools. Photon supports child development at every stage and is far more than just a robot. When purchasing our products, you receive everything you need to carry out your tasks with ease. What's more, you become a member of a family of committed educators who are actively cooperating and exchanging ideas every day.



## We aim to help teachers every day

We understand the importance of mutual trust. We continue to do our best to make sure that as an educator you have everything you need to carry out your tasks. That's why when purchasing our products, teachers receive our full support right from the very start.

By purchasing our products, teachers get access to:



### Resources

All the teaching aids and other resources can be found on our web portal. Find ready lesson plans, video tutorials, a user guide, and lesson ideas. To get started go to:

[www.portal.photon.education/en](http://www.portal.photon.education/en)



### Technical support

Haven't found an answer on our website or within our community? Photon experts are always available to help.



### Training courses\*

Still not sure where to start? All users are welcome to take part in both online and offline basic, or advanced training courses for professional educators and parents.



### Community

Our international community is always willing to share their experiences and help new members. Join the conversation at:

[www.facebook.com/groups/photonglobalcommunity/](http://www.facebook.com/groups/photonglobalcommunity/)



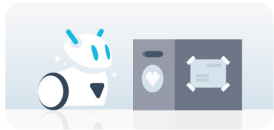
## Universal didactic tool

The Interdisciplinary Photon Robot was designed to work with both younger and older students. Teachers can either use specifically prepared lesson plans or create their own, to teach anything from humanities and science to basic & advanced coding.

History, art, languages, maths, geography, and physics are just a few examples of what the robot can help you with. Furthermore, the robot can be used at every level of education, from kindergarten, all the way to 12th grade.

### Beyond traditional education

3 components for electrifying classes



The robot is simple, intuitive in use, and ready to use right out of the box.



Dedicated free mobile or desktop apps are intuitive and compatible with most devices.



Hundreds of lesson plans and ideas are available online and in print.

Compatible with:



### One robot, a whole curriculum

- Mathematics
- Geography
- Native language
- History
- Biology
- Foreign languages

## All a teacher needs in one box

With Photon Teaching Kits the possibilities are endless.

Photon Teaching Kits make education more engaging, exciting, and real. Conduct exciting experiments with specifically designed Teaching Kits. Take a deeper dive and learn about each product on the upcoming pages. Each Teaching Kit contains a robot along with compatible resources and accessories. Each Kit was developed with close cooperation with experts, teachers, parents, and children.





**The Robot you find in the Kit can be used during any class.**

### Comprehensive development




Photon products guarantee a comprehensive approach to students' development. Each set addresses a different challenge.

We believe that technology and science are the future. By teaching our children to code, we are teaching them the language of tomorrow. However, we also believe that we should not forget to discuss our feelings and emotions. We must teach about the importance of compassion and communicating with one another. That is why the Kits we have developed fixate on these two key areas of development.

### Social Development

-  Social-Emotional Learning
-  Special Education
-  Early Education
-  Sustainable Energy

### STEM Development

-  Robotics & Coding
-  Artificial Intelligence
-  Physics





## Benefits of using our products



Parents pay special attention to the teaching aids available and the robot raises the status of the institution.



Photon is an interdisciplinary robot that helps teach core subjects from kindergarten all the way to grade 12.



A technologically advanced toolKit that will make sure to keep students occupied, entertained, and eager to learn.



Ready-made lesson plans for each subject - no need to spend extra hours preparing them for each class.



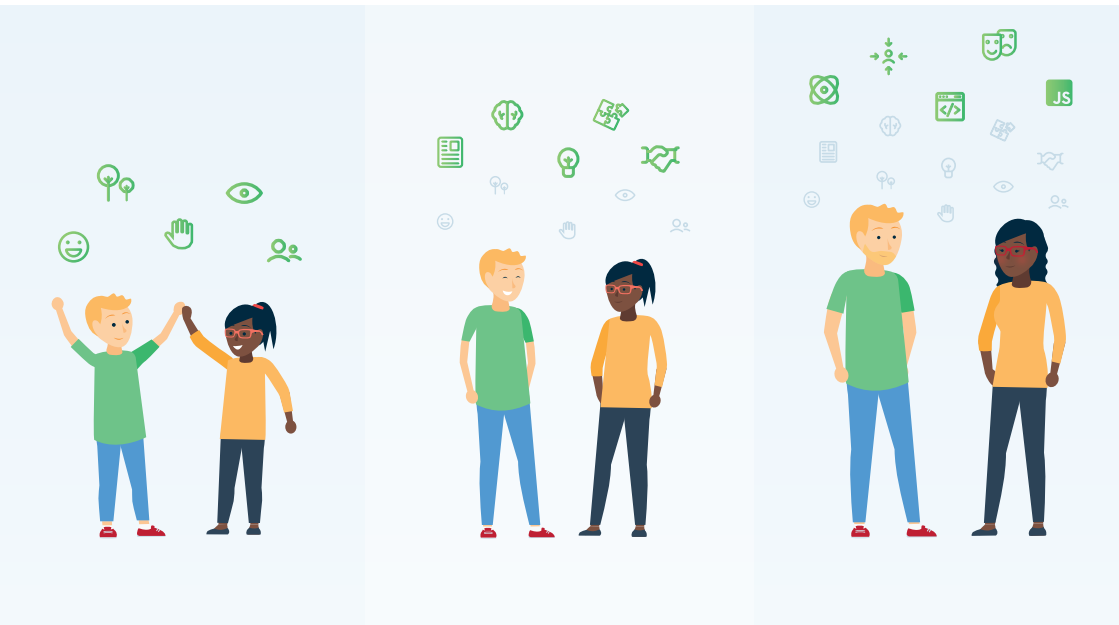
By setting up a personal profile, teachers may save lesson plans which can later be shared with educators worldwide.



One Photon Robot can be shared between teachers, independently of what they teach.



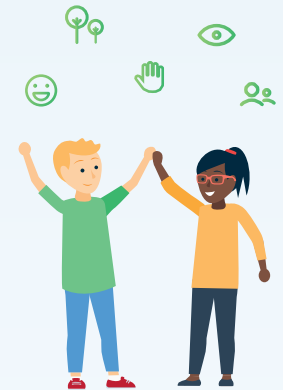
## Photon products foster the development of children from kindergarten all the way to grade 12.



## Kindergarten

Photon can accompany teachers in everyday school activities. Children eagerly engage in controlling the robot's movement by using simple interfaces. They can use a tablet to draw the robot's route, stack symbol blocks, or simply improve their fine motor skills by using the joystick. It's entirely up to the user whether the robot moves through space, shops at a local mall, or takes a walk through a forest.

Change the color of the robot's eyes and antennae or the sound it makes choosing from a broad collection. Plan how the robot interacts with children; it can express happiness after being petted by a child, respond to touch by changing the color of its antennae, show fear in response to noise, or sound an alarm when an obstacle is detected.



### Acquired skills

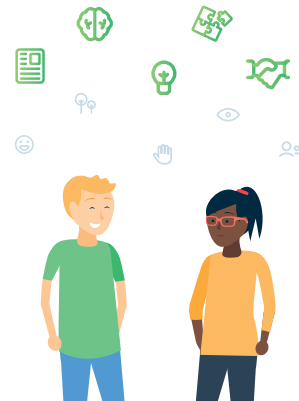
- + eye-hand coordination
- + manual skills
- + spatial orientation
- + emotional development
- + social skills

# Elementary Education

At this stage, we can use the robot in a range of subjects, such as history, language arts, biology, or geography. Children program the robot with the help of symbols or by stacking text blocks. Activities are complemented by educational mats and flashcards and can be easily adjusted to the user's needs. Children can also design interactions by programming how the robot should react when, for example, encountering an obstacle, transforming the robot into handy objects, such as a bedside lamp or a decision-making assistant.

## Acquired skills

- planning and anticipation
- teamwork
- creative thinking
- problem solving
- logical thinking
- creativity

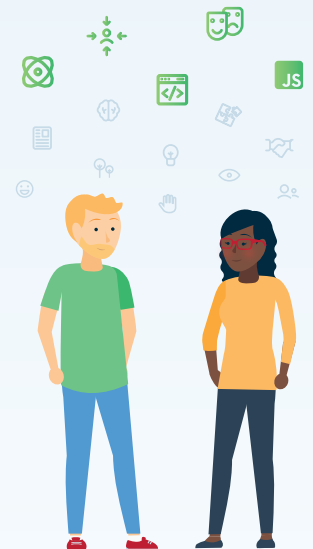


# Secondary Education

In this age group, Photon products are primarily used in advanced physics, robotics, and programming classes. Students can build on the skills acquired in previous years by creating more advanced programs based using Photon Code, Scratch, or MakeCode. Moreover, the more advanced students may write real, text-based code in Python.

## Acquired skills

- science skills and awareness
- basic and advanced coding skills
- programming languages (Javascript, Python)
- multi-faceted reasoning
- project-oriented skills







Products	Kindergarten	Elementary	Secondary	Category
<b>Photon Robot</b> A multidisciplinary robot that can be used along with Teaching Kits or independently.	✓	✓	✓	Social STEM
<b>Social-Emotional Learning Kit</b> Support the social-emotional development of children ages 6-11.	✓	✓		Social
<b>Special Education Kit</b> Facilitate teaching students with Autism Spectrum Disorder as well as emotional and social disorders.	✓	✓	✓	Social
<b>Early Education Kit</b> Support the social and cognitive development of preschoolers.	✓			Social
<b>Sustainable Energy Kit</b> Shape an attitude of respect for the natural environment and promote pro-environmental behaviors.	✓	✓		Social
<b>Robotics &amp; Coding Kit</b> Introduce the concepts of coding and robotics simultaneously.			✓	STEM
<b>Artificial Intelligence Kit</b> Build AI systems with your students.		✓		STEM
<b>Physics Kit</b> Introduce your students to the concepts of uniform motion, force, work, energy, sound, light, and much more.			✓	STEM