



Thornccliffe Association
Curriculum
Age 5 - 8



RoboThink is an international leader in STEM education, offering fun and engaging programs in **robotics, coding, and engineering** for children of all ages. Our hands-on curriculum is designed to spark curiosity, foster creativity, and build critical problem-solving skills.

Through guided activities, students learn to **design, build, and program robots** while developing teamwork, logical thinking, and confidence. Each session is structured to balance **learning and play**, ensuring that children not only gain valuable technical knowledge but also have fun throughout the process.

RoboThink programs are trusted by schools and learning centers worldwide and are carefully tailored to meet the needs of different age groups, ensuring that every student is challenged at the right level.

Our mission is simple: to inspire the next generation of **engineers, innovators, and problem solvers** through exciting, hands-on STEM experiences.



Program Description

Get ready for six weeks of action-packed, hands-on robotics! In this exciting program, students will explore **robotics, engineering, mechanics, and problem-solving** as they build a different robotic creation each week using RoboThink's innovative building system.

From battling robots and soccer-playing machines to tanks and trains, every class introduces a new engineering challenge while encouraging students to experiment, improve their designs, and have fun.

Weekly Projects:

- **Week 1 – Moving Battle Robot:** Build a powerful moving robot designed for exciting robotic challenges.
- **Week 2 – Soccer Bot:** Engineer a robot that can move, control, and play with a ball.
- **Week 3 – Knight Bot:** Create a medieval-inspired robotic knight and explore movement and mechanical design.
- **Week 4 – X Metal Tank:** Construct a rugged robotic tank while learning about stability, movement, and engineering.
- **Week 5 – I R Train:** Build a motorized train and discover how mechanical systems work together to create motion.
- **Week 6 – Build Your Own:** Put everything you've learned to the test by designing and building your **own unique robotic creation**.

Throughout the program, students develop **creativity, critical thinking, problem-solving, fine motor skills, and confidence** through hands-on STEM learning.

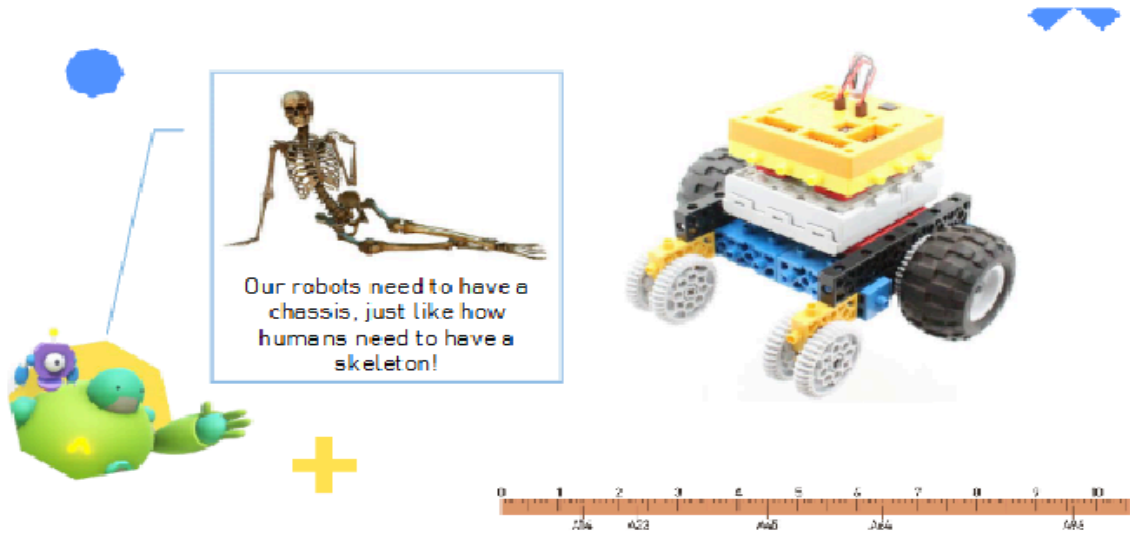
No previous robotics experience is required—just bring your imagination and get ready to build!

Robothink Schedule

Week	Activity
Week 1	Moving Battle Robot
Week 2	Soccer Bot
Week 3	Knight Bot
Week 4	X Metal Tank
Week 5	I R Train
Week 6	Build Your Own

BATTLE ROBOTS

LESSON 1: MOVING BATTLE ROBOT



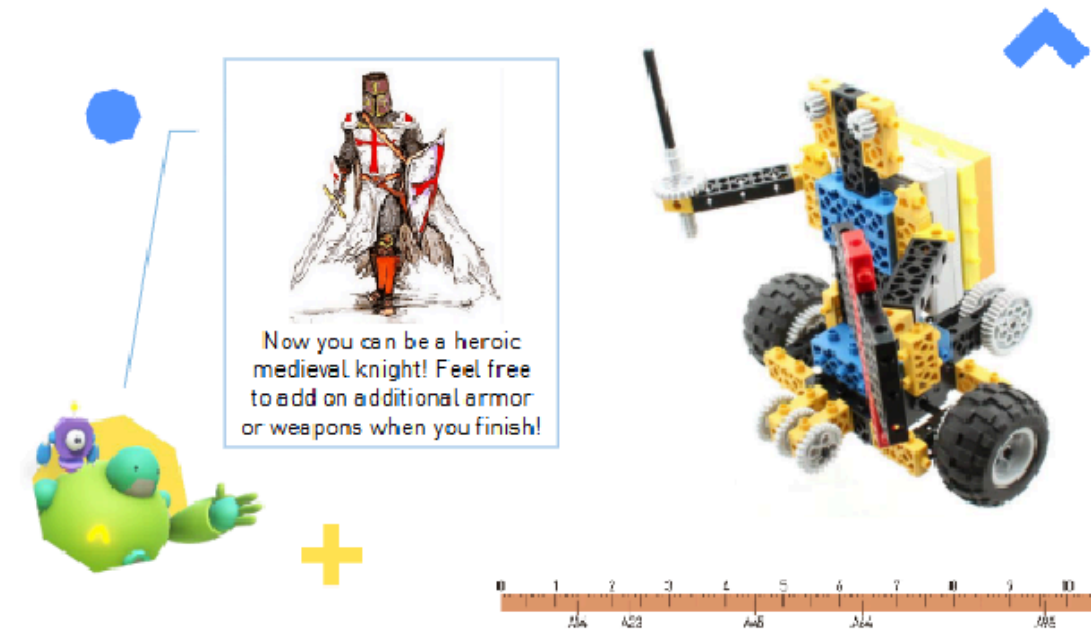
BATTLE ROBOTS

LESSON 2: SOCCER BOT JR.



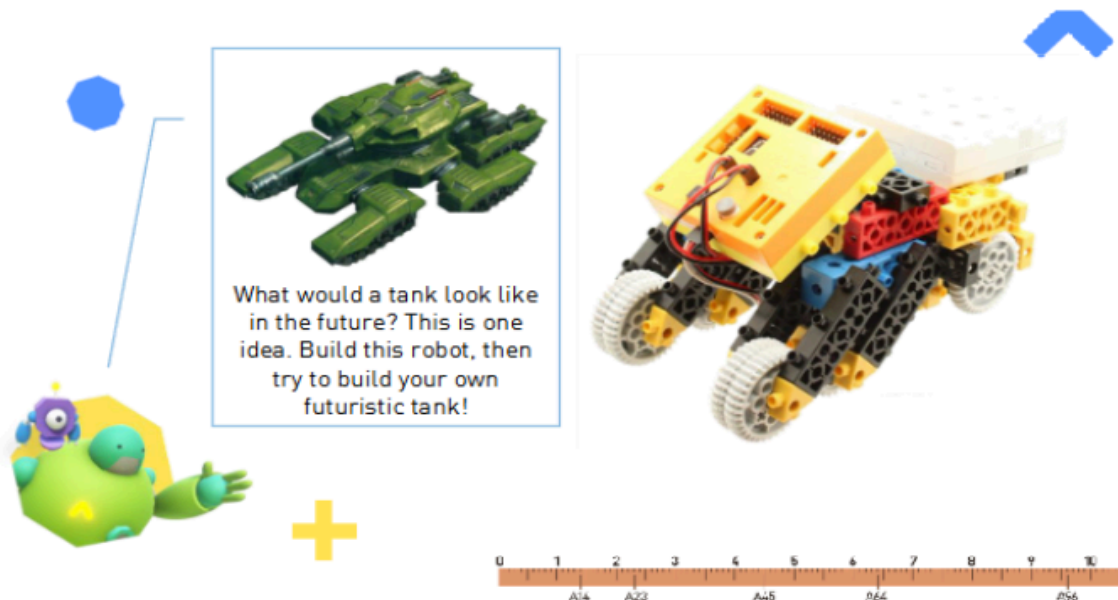
BATTLE ROBOTS

LESSON 3: KNIGHT BOT



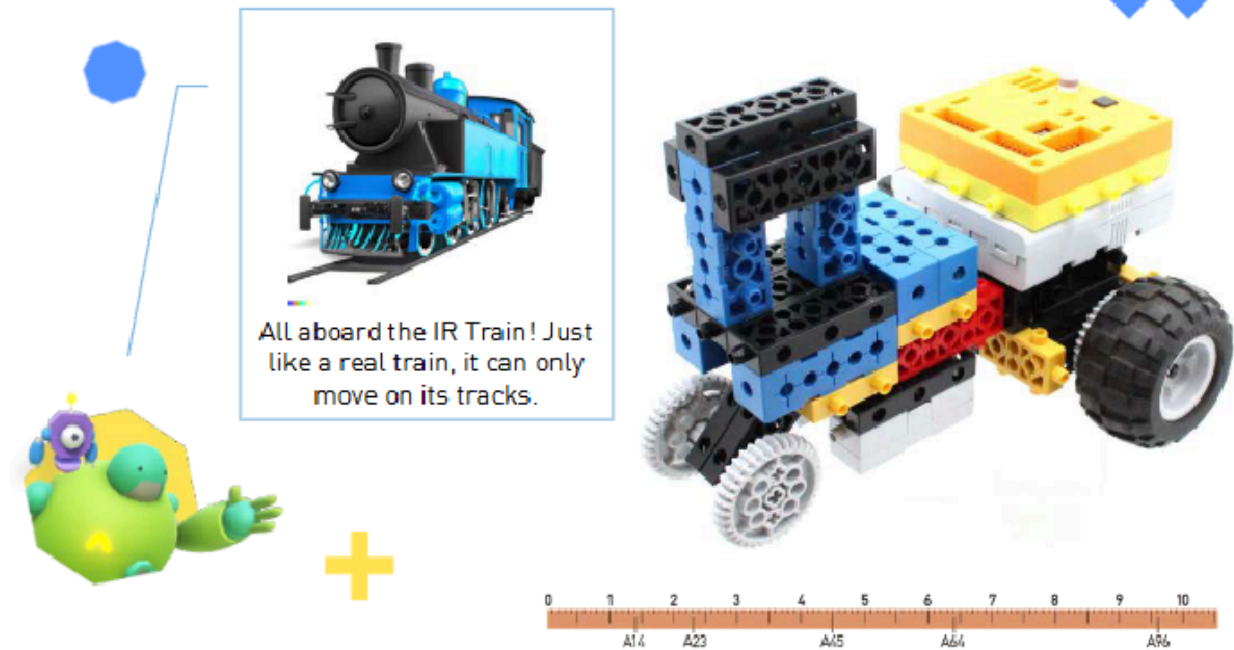
BATTLE ROBOTS

LESSON 4: X – METAL TANK



BATTLE ROBOTS

LESSON 5: IR TRAIN



BATTLE ROBOT

LESSON 6: Build Your Own Ride

