

Essential Courses at Liger Leadership Academy - Cambodia

Science

The science curriculum is designed to provide all LLA students with a solid background in the major areas of science. In addition to the extensive science learning that occurs while students conduct interdisciplinary projects to solve real-world problems, all students have six years of traditional science courses. All courses in grades 9-12 are full one-year comprehensive courses that include the use of a wide variety of learning methods and materials including direct instruction, textbooks, online resources, compelling science speakers, and lab experiences. All courses are taught by teachers with extensive experience in the particular subject they teach.

All Science Courses

- Grade 7 - STEM - Computer Science and Engineering - All students
- Grade 8 - Life Science - All students
- Grade 9 - Physical Science 9 - All students
- Grade 10 - Physics 10 - All students
- Grade 11 - Chemistry11 - All students
- Grade 12 - Biology 12 - All students
- AP Biology - Advanced Placement biology course
- AP Physics - Advanced Placement physics course

* Other project-based courses (Explorations) that incorporate science skills

Math

All LLA students will complete six years of math during which they obtain solid math skills appropriate for their future. The math program is comprehensive and rigorous covering all major areas of math being used in industry and higher education. Math at LLA is customized to each learner's needs and skills and is an essential building block for students considering math-related careers. For students not pursuing futures needing strong math skills, the program will develop solid, practical math skills useful to their future.

All Math Courses

- Grade 7 - Singapore Math
- Grade 8 - Singapore Math
- Pre-Algebra - Introductory level algebra course
- Algebra - Basic algebra course for all students
- Algebra 2 - Advanced algebra course for students moving on to precalculus
- Algebra/Algebra 2 - For students to gain a solid footing in algebra not moving on to calculus
- Statistics - High school level statistics course for all students
- AP Statistics - Advanced Placement statistics course for students preparing for the AP exam
- Precalculus 11 - Advanced high school level math course for students moving on to calculus
- Pre-Calculus + Intro to Calculus - Intermediate level high school course for students considering university but not reaching full calculus course level
- Calculus 12 - Advanced high school level math course for those considering university in science, engineering, and medical fields

* Other project-based courses (Explorations) that incorporate math skills

Language Arts

The goal of the language arts program at LLA is to develop high levels of English literacy and a solid foundation in language arts skills in all students. Language arts skills are critically needed for developing:

- Excellence in writing, vocabulary development, reading comprehension, and communication skills
- professional leaders who require high levels of English communication in the areas of reading, writing, listening, and speaking (diplomat, business leader, professor, etc.)
- English skills needed for admittance and success in attending university
- appropriate language arts required for future job possibilities (technical writer, engineer, architect, etc.)
- creative users of English to enhance leadership opportunities in the future (author, filmmaker, etc.)

All Language Arts Courses

- Grade 7 - Language Arts Grade 7 - All students
- Grade 8 - Language Arts Grade 8 - All students
- Grade 9 - Language Arts I - All students
- Grade 10 - Language Arts II - All students
- Grade 11 - Language Arts III - All students
- Grade 12 - Language Arts IV - All students

* Other project-based courses (Explorations) that incorporate language arts skills

Target Language Literacy - Khmer

The overarching goal of the target language literacy program is to develop a robust capability to effectively communicate in a target language that is most appropriate to the LLA context.

At LLA, we are creating leaders who are well rounded and globally-minded. We believe having a sound background in a target language assists in developing such leaders and can improve a student's learning capacity in a variety of ways.

All Khmer Courses

- Grade 7 - Khmer Literacy Grade 7 - All students
- Grade 8 - Khmer Literacy Grade 8 - All students
- Grade 9 - Khmer Literacy Grade 9 - All students
- Grade 10 - Khmer Literacy Grade 10 - All students
- Grade 11 - Khmer Literacy Grade 11 - All students
- Grade 12 - Khmer Literacy Grade 12 - All students

* Other project-based courses (Explorations) that incorporate Khmer skills