

KOISHIKAWA NAVIGATOR



**TOKYO METROPOLITAN
KOISHIKAWA SECONDARY SCHOOL**

Our Nation's Select
**SUPER SCIENCE
HIGH SCHOOL**

TOKYO METROPOLITAN KOISHIKAWA SECONDARY SCHOOL



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SCHOOL MOTTO

DETERMINATION	Determine Your Aim
EXPLORATION	Explore Every Possibility
CREATION	Create Your Future

WE EXPECT OUR GRADUATES TO:

- Keep a positive attitude and strong spirit as they enhance their own abilities and individuality, and never be content with their present capabilities.
- Acquire an enriched education and sensitivity to represent Japan in international society.
- Apply their strengths in science, math and foreign languages to take leadership positions in their chosen fields.

The Principal's Address

In 2006, our school was established from the foundation of Koishikawa High School, which was founded in 1918. Since its opening, the school motto (determination, exploration, and creation) has been proudly upheld.

Our school aims to lay the solid foundation necessary for whatever field students choose, to nurture students' abilities to their fullest extent, and to encourage them to take on leadership positions in their chosen fields. Also we inspire them to learn, think, and judge for themselves, and to apply these attitudes and abilities throughout their life.

Through interesting courses, school events, club activities, and academic projects, students gain these abilities. With the three pillars of **Koishikawa Liberalism, High-Level Math & Science Education and Fostering an International Mindset**, we educate students to be able to determine their aim, explore every possibility, and create their future.

School History

- 1918 Founded as Tokyo Prefectural Fifth Secondary School under the pre-war education system
- 1919 Appointment of Mr. Choshichi Ito as the First Principal
- 1943 Renamed as Tokyo Metropolitan Fifth Secondary School under the pre-war education system
- 1948 Renamed as Tokyo Metropolitan Fifth Upper Secondary School under the new education system
- 1949 Changed into a co-educational School
- 1950 Renamed as Tokyo Metropolitan Koishikawa High School
- 2004 Began preparation to become a Six-year Secondary School
- 2006 Renamed as Tokyo Metropolitan Koishikawa Secondary School Designated as a Super Science High School (SSH)
- 2011 Renewed as an SSH for a Second Term
- 2017 Renewed as an SSH for a Third Term
- 2018 100th Anniversary



KOISHIKAWA LIBERALISM



Through applying their strengths in science, math and foreign languages, students are expected to take leadership positions in their chosen fields.

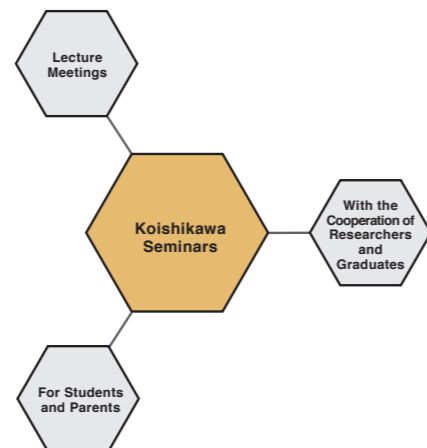
Our school focuses on the importance of developing vast and profound knowledge. Every student studies both science and humanities equally. There are no tracks such as a science-centered track, or a humanities-centered track. All Koishikawa students also study Koishikawa Philosophy I to VI, a research project which nurtures problem-solving and decision-making abilities. Students also learn how to present their research.

Koishikawa Seminars

Koishikawa Seminars are held several times a year, where world-class researchers give lectures with the aim of inspiring students to know and learn more deeply.

Second Foreign languages

4th, 5th and 6th graders have the option of learning an additional language (Chinese, German, or French). About 70% of 4th graders take this class.



Curriculum which practices Koishikawa Liberalism

PERIOD OF DETERMINATION *Determine Your Aim*

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
First Year	Japanese		Social Studies			Mathematics			Science			Music · Fine Arts		Physical Education		Home Economics and Trades		English			Moral Education		Integrated Study															
	Japanese		Social Studies			Mathematics			Science			Music	Fine Arts	Physical Education		Home Economics and Trades		English			Moral Education	Koishikawa Philosophy I		Home-room														
	4,6		4			5			4			1.5	1.5	3		2		5			1	1.4		1														
Second Year	Japanese		Social Studies			Mathematics			Science			Music · Fine Arts		Physical Education		Home Economics and Trades		English			Moral Education		Integrated Study															
	Japanese		Social Studies			Mathematics			Science			Music	Fine Arts	Physical Education		Home Economics and Trades		English			Language and Culture	Koishikawa Philosophy II		Moral Education		Home-room												
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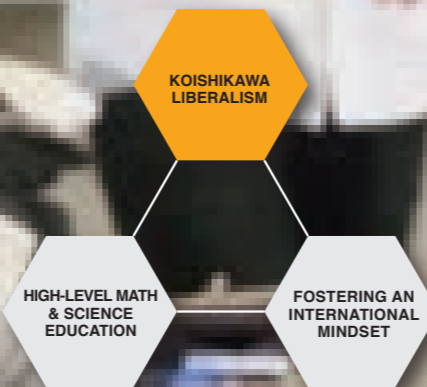
PERIOD OF EXPLORATION *Explore Every Possibility*

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
Third Year	Japanese		Social Studies			Mathematics			Science			Music · Fine Arts		Physical Education		Home Economics and Trades		English			Moral Education		Integrated Study																	
	Japanese		Social Studies			Mathematics			Science			Music	Fine Arts	Physical Education		Home Economics and Trades		English			International Understanding	Koishikawa Philosophy III		Moral Education		Home-room														
	4		5			5			5			1	1	3		1		5			1	1	1	1		1														
Fourth Year	Japanese		Social Studies			Mathematics			Science			Elective Arts		Physical Education		English			Moral Education		Integrated Study																			
	Integrated Japanese Language		Geography B	Ethics	Integrated Study	Math I	Math II	Math A	Basic Physics	Basic Chemistry	Basic Biology	Basic Earth Science	Music I	Physical Education	Health Education	Communication English I	English Expression I	Information Technology	Koishikawa Philosophy IV	Volunteer Work	Home-room	Special Foreign Language	Chinese	German	French															
	5		2	2	1	2	1	2	1	1	1	2	2	3	1	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

PERIOD OF CREATION *Create Your Future*

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36						
Fifth Year	Japanese		Social Studies			Mathematics			Science			Physical Education		Home Economics and Trades		English			Moral Education		Integrated Study																					
	Contemporary Japanese Language B	Japanese Classics B	Japanese History B	World History B	Math II	Math B	Basic Physics	Basic Chemistry	Basic Biology	Physical Education	Health Education	Home Economics and Trades	Communication English II	English Expression II	Koishikawa Philosophy V	Home-room		Special Foreign Language	Chinese	German	French																					
	2	3	3	2	3	3	2	2	1	2	1	2	3	2	2	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Sixth Year	Japanese		Social Studies			Mathematics			Science			Physical Education		Home Economics and Trades		English			Moral Education		Integrated Study																					
	Contemporary Japanese Language B	Politics · Economics	Physical Education	Communication English III	English Expression III	Special Courses																Koishikawa Philosophy VI	Home-room		Special Foreign Language	Chinese	German	French														
	2	2	2	3	2	21																1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

KOISHIKAWA PHILOSOPHY



Explore Every Possibility through Problem-solving Activities

Our six-year research project inspires students to explore their interests.

Koishikawa Philosophy is a six-year course, which is held one or two periods a week each year, with the aim of fostering the following three abilities.

The Ability To Identify a Problem

How to find a problem and make a plan to solve it

The Ability To Explore Every Possible Avenue

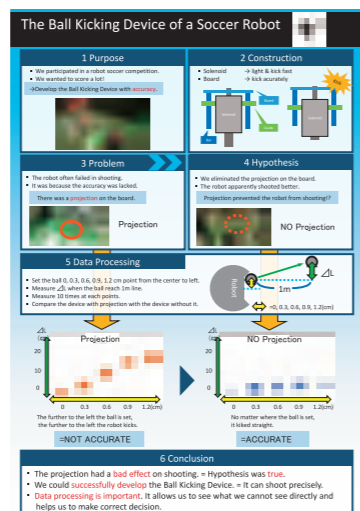
How to improve the plan through reflection and carry out the solution

The Ability To Think Creatively

How to create a new model and increase flexibility

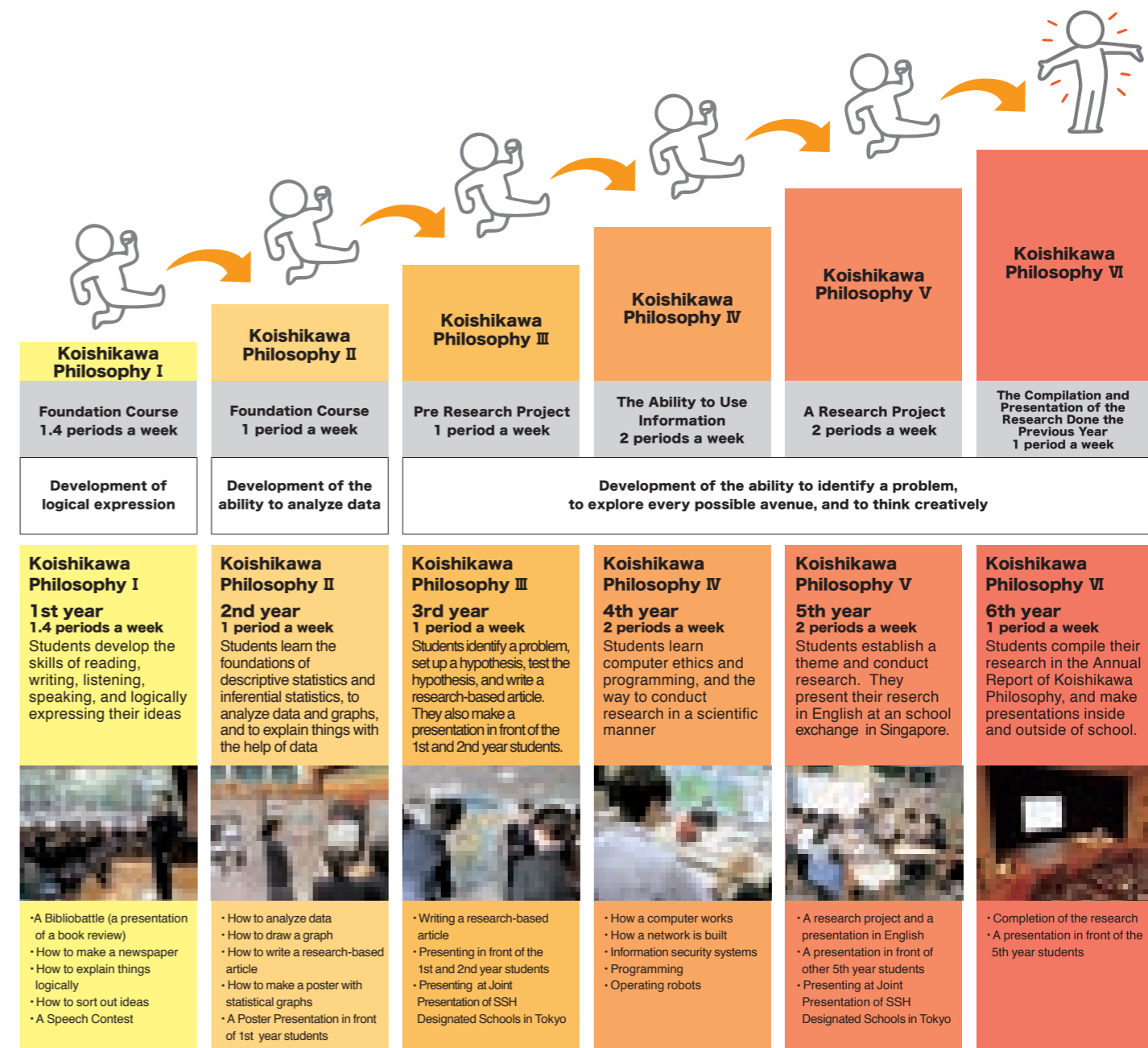
This research project covers a wide range of topics including science, math and global issues.

All Koishikawa students study in seminar groups conducted by teachers from all fields.



A Six-year Research Project

Global leaders with the ability to think scientifically



List of the Seminars for Philosophy V (Changed Every Year)

Students select one seminar, establish a theme and conduct research.

Media Literacy	Research in Math	Research in Earth Science	Global Understanding
Contemporary Japanese Poems of 31 Syllables	Constellation –Physics in Space	PE & Sports	Basic Parliamentary Debate in English
Analysis of the Movies During War	Research in Chemistry	Music Expressions	
Cool Japan –Japanese Culture in the World	Research in Biology	Research of Art Works (Traditional Japanese Culture)	

Research in Cooperation with Universities

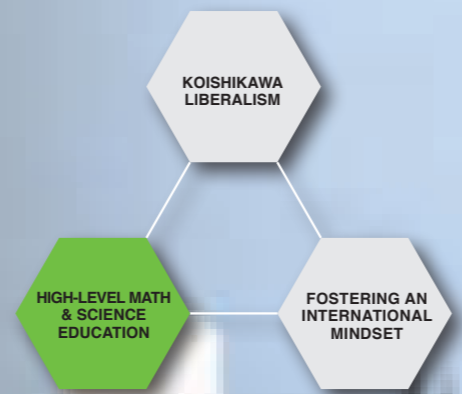
Connections with various universities enable our students to visit professors to get guidance and advice for their research project.

Universities we have recently been in cooperation with

Ochanomizu University
Keio University
Takushoku University
University of Tsukuba
Tokyo Medical and Dental University
Tokyo Institute of Technology
Tokyo University of Science
Cardiff University

Kanda University of International Studies
Tokyo Metropolitan University
Chuo University
The University of Tokyo
Tokyo Gakugei University
Tokyo University of Agriculture and Technology
Waseda University

HIGH-LEVEL MATH & SCIENCE EDUCATION



Students elevate their science and communication skills and learn how to solve problems on their own.

The Ministry of Education, Culture, Sports, Science and Technology has designated our school as one of our nation's select Super Science High Schools. We aim to foster high-level students who will lead scientific technology in Japan into the future.

HIGH-LEVEL SCIENCE EDUCATION

Students learn physics, chemistry, biology, and earth science from specialized teachers.

They learn from basic to advanced concepts with a lot of laboratory work and observations. They continue to study these four fields at an equal balance in order to develop a broader point of view.

Grades	Advanced Science Subjects			
1 st year	Adv. Physics 1	Adv. Chemistry 1	Adv. Biology 1	Adv. Earth Science 1
2 nd year	Adv. Physics 2	Adv. Chemistry 2	Adv. Biology 2	Adv. Earth Science 2
3 rd year	Adv. Physics 3	Adv. Chemistry 3	Adv. Biology 3	Adv. Earth Science 3
4 th year	Adv. Physics 4	Adv. Chemistry 4	Adv. Biology 4	Adv. Earth Science 4
5 th year	Adv. Physics 5	Adv. Chemistry 5	Adv. Biology 5	

HIGH-LEVEL MATH EDUCATION

In the 1st and 2nd year, students study foundation of algebra and geometry. At the end of the 2nd year, they have completed junior high school mathematics, allowing them to study advanced math throughout the rest of their time at Koishikawa.

Students are divided into smaller groups to allow them to achieve their full potential.

Grades	Advanced Math Subjects	
1 st year	Adv. Algebra 1	Adv. Geometry 1
2 nd year	Adv. Algebra 2	Adv. Geometry 2
3 rd year	Adv. Algebra 3	Adv. Geometry 3
4 th year	Adv. Analysis 1	Adv. Algebra & Geometry 1
5 th year	Adv. Analysis 2	Adv. Algebra & Geometry 1

Efforts as a Super Science High School

Our school was first designated as a Super Science High School in 2006.

In 2017, this status was renewed for a third time. We are working on various efforts in order to foster students who will take global leadership positions in science.

- ① Improving high level math and science curriculum
- ② Improving our six-year Research Project course
- ③ Improving programs to nurture global leaders who can take great roles in their chosen scientific fields
- ④ Strengthening cooperation and connections with universities
- ⑤ Professional development of our teachers

Visits to Overseas Universities

During summer vacation, students visit overseas universities, where they join lectures and experiments in scientific fields. They are also given the chance to discuss the theme of their research with professors, allowing them to gain further insight on their research project.

This program inspires students to gain independence and creativity, enabling them to take leadership positions in the future.



Science Café

We hold lectures more than 10 times a year in cooperation with universities, private companies and research laboratories. Students choose to join the lectures they are interested in, which are held by scientists who are well known all over the world.



The International Science Olympiad

Students choose to compete in the preliminary session of the International Science Olympiads in the fields of Physics, Chemistry, Biology, Earth Science, Mathematics and Information Science. Some of them succeed in passing the first stage, going on to the international Science Olympiad.

Student Achievements

International contests

- The International Earth Science Olympiad Gold Medal in 2017
- RoboCup Junior World Tournament
3rd Prize in 2017 5th Prize in 2018 2nd Prize in 2019
- Journal of Physics D: Applied Physics
A student published an article in this academic journal (a peer-reviewed scientific journal published by IOP Publishing) in 2018.

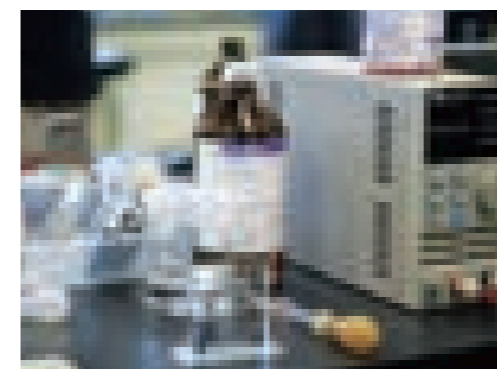
Domestic contests

- Japan Student Science Award, JSSA
(Japan's most traditional and prestigious science research contest for junior high and high school students)
School Award (2017), 3rd Prize (2017), 1st Prize (2018), Asahi Kasei Prize (2019), 2nd Prize (2019)
- Super Science High School (SSH) Student Research Presentation
The Judging Committee Chairperson's Award (2018)
The Commendation for Education, Culture, Sports, Science and Technology (2019)
- Japanese Biology Olympics Gold Prize (2019)
- Physics Challenge
The 2nd Challenge Silver Prize (2019)
The 1st Challenge Experimental Excellence Award (2019)
- The U-22 Programming Contest
The Minister of Economy, Trade and Industry Award (2017)
- Certified as Super Creators in the Exploratory IT Human Resources Project (Those possessing outstanding capabilities who have completed the program are certified as Super Creators by IPA, Japan.)(2018)

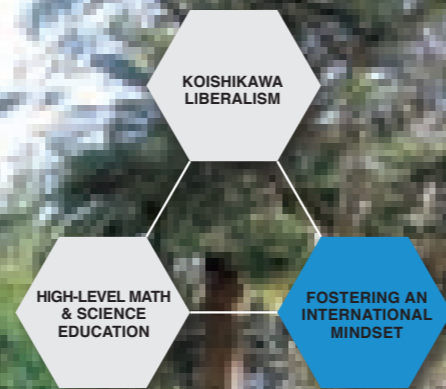
Open Laboratory

After school, on weekends and public holidays, our Physics, Chemistry, Biology, Earth Science, Math and Information Science laboratories are available for students to work on independent projects.

Outside of school, students can work with the Tokyo University of Agriculture and Technology on a cooperative project.



FOSTERING AN INTERNATIONAL MINDSET



Developing Global Citizens with Real-World Projects

Second year students attend a three-day English training Camp in Tokyo, third year students join a two-week study tour to Australia, and fifth year students take a school trip to Singapore. In addition, Koishikawa hosts visiting students from overseas schools. These experiences allow our students to develop a global perspective.

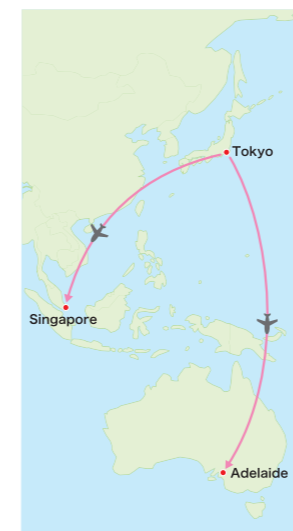
English Education

Our English Education is not aimed at passing entrance exams but at developing confidence to interact with the wider world.

We see English classes as a stage for communication where we practice recitation, drama, debate, and discussion. Classes are divided into smaller groups for effective practice and retention. Our teaching staff includes native speakers from a variety of countries to foster a truly global understanding of English. Students aim to become skilled enough to gain an English language qualification.

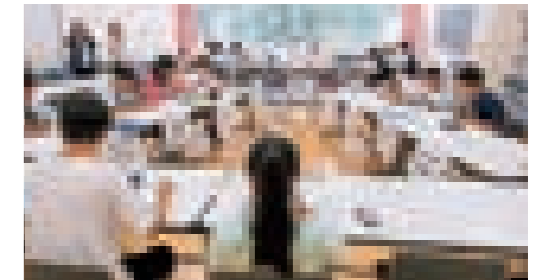


To Develop an International Mindset



- 1st year **Recitation Contest**
- 2nd year **Skit Contest**
A Three-day English Training Camp
- 3rd year **Research & Presentation Contest**
A Two-week Study Tour to Australia
- 4th year **Speech Contest**
- 5th year **Poster Presentation of Their Research Project and Discussions at Host Schools**
A Five-day School Trip to Singapore

Students visiting from overseas take part in everyday classes. There are also opportunities for formal debates with 4th and 5th-year students. Our students also compete in the National Debate Competitions. In 2017, one of our teams won 5th place in the national competition (the 12th All Japan High School English Debate Tournament)



3rd Year Two-week Study Tour to Australia

Drawing on Koishikawa classes and the English Training Camp, our students stay with families in Adelaide for two weeks. They go to school with their Australian school buddies and put what they have learned into real-world practice.



Study at 8 Designated Australian Schools

In cooperation with the Department for Education and Child Development (DECD), South Australia, students go to eight designated schools. At each school about 20 Koishikawa students study together with their Australian buddies.

Schools

- Seaview
- Glenunga
- Seaton
- Norwood Morialta
- Wirreanda
- Marryatville
- Henley
- Golden Grove

4th and 5th Year Cultural Exchange with Visiting Overseas Students

Koishikawa hosts visiting students from overseas schools. They take part in everyday classes and club activities. This helps Koishikawa students to develop a global perspective.



5th Year Five-day School Trip to Singapore

In February, 5th-year students take a school trip to Singapore, visit schools, present research posters and have discussions in English with students at four different schools.





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School life helps develop students' abilities to their full extent through interesting courses, school events, club activities, and committees.

What we aim for in the first three years is to respect our students' independence and sensitivity, which will be important later in Koishikawa life, while helping them to learn basic social rules. For the latter three years, students become more and more independent and responsible, and thus are expected to take leadership roles, explore their interests, and create their own culture.

School Uniforms



School uniforms are worn daily from the first to the third year. Girls can choose from two types of skirts and one type of trousers, boys can choose between two types of trousers. Both boys and girls can choose from two kinds of ties. We have an official sweater and vest.

In the fourth year, uniforms become optional, allowing students to wear any clothes that are appropriate for the class. On formal occasions, all the students are required to wear uniforms or formal clothes.

For the first three years, students wear uniforms.

For the latter three years, students can wear whatever they like.

Learning

Seven Classes Every Day

Our school has seven classes in a day; each class is 45 minutes. As a result, we have 34 to 36 hours of classes a week.

Class-first

Classes are important at Koishikawa. To confirm the content of the class, assignments are usually given after each class. Students generally study for two hours every day at home.

08:25 Homeroom / Roll Call	12:55 5th period
08:35 1st period	13:50 6th period
09:30 2nd period	14:45 7th period
10:25 3rd period	15:35 Short Homeroom • Cleaning
11:20 4th period	16:00 Club Activities
12:05 Lunch Time	17:00* School Closing Time

* Regarding club activities, students can stay at school until 6 p.m. if allowed by the teachers. In that case, school closing time is 6:30 pm.



CLUB ACTIVITIES

Through club activities, students explore their interests. These activities strengthen the ties that bind all the Koishikawa students together.

Under the spirit of DETERMINATION, EXPLORATION, and CREATION, "Play a lot. Sleep a lot. Study a lot." has been the ethos for almost 100 years, and many students are devoted to their club activities. More than 90% of the students are in one or two clubs. (We have 17 athletic clubs and 21 cultural and academic clubs)

Athletic Clubs

Soccer	Rugby	Soft Tennis	Regulation-ball Tennis
Rubber-ball Baseball	Track and Field	Basketball (Boys)	Basketball (Girls)
Volleyball (Boys)	Volleyball (Girls)	Badminton	Lacrosse
Judo	Kendo	Table Tennis	Dancing
Swimming			

Cultural And Academic Clubs

Karuta Tournaments	Philharmonic Orchestra	Chorus	Brass Band
Music Band	Folk Songs	English	Cooking
Manga	Shogi and Chess	Drama	Art
Tea Ceremony	Flower Arrangement	Literature	Physics
Chemistry	Biology	Astronomy	Computer
Mathematics			

SCHOOL EVENTS

In September, we have three school events in a row. The School Talent Show, Sports Festival, and the School Cultural Festival. The specific feature of these events is that students think for themselves and create the events on their own initiative. School Event Week is the most time-honored traditional event in Koishikawa. During School Festivals, 1st and 2nd-year students make displays in a classroom, 3rd to 6th year students perform dramas.

April	●1 st -year Entrance Ceremony	●Orientation	●1 st - 6 th year One-day School Excursion
May	●Election for members of the Student Council		●Mid-term Examinations
	●Sports Festival Opening Ceremony		
June	●1 st -year School Camp	●2 nd -year Work Experience	●Students' General Meeting
	●Sports Festival Preliminary Session		
July	●Term Examinations	●Koishikawa Seminar	●Club Activity Camp
	●SSH Student Research Presentation at Koishikawa		●Supplementary Classes in Summer
August	●3 rd -year Two-week Study Tour to Australia		●4 th -year Volunteer Activities
September	●School Event Week (School Talent Show, Sports Festival, and School Cultural Festival)		
October	●4 th -year Two-day Emergency Drill		●Mid-term Examinations
November	●1 st -year Career Guidance by Professionals	●2 nd -year Three-day English Training Camp	
December	●Term Examinations	●4 th and 5 th -year Lectures by University Professors	
	●Koishikawa Seminar		
January			
February	●5 th -year Five-day School Trip to Singapore	●1 st - 3 rd year Chorus Concert Competition	
March	●Final Examinations	●Graduation Ceremony	●Koishikawa Seminar

TOKYO METROPOLITAN KOISHIKAWA SECONDARY SCHOOL

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