

Over 100 Years of History!

October 1888 - local private school, "Kamihabu School" is established (pictured below).



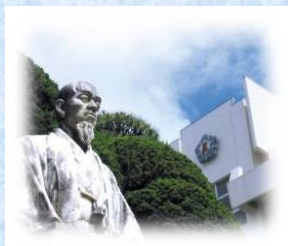
June 1893 - Chosei private school opens

April 1901 - both schools merge into "Taiseikan," founded by Chiba Tenmu, medical doctor and educator in Chiba Prefecture

April 1911 - "Taiseikan" becomes "Taiseikan Junior High School"

September 1923 - Taiseikan officially becomes a prefectural junior high school in Chiba, this time called, "Chosei"

April 1948 - Chiba Prefectural High School is established as it is known today and has been providing high-quality education in Mobara for over 60 years

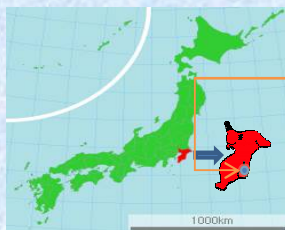


Statue of Founder and Visionary, Chiba Tenmu, in Front of the School's Main Entrance



COME VISIT US!

Only about 10 minutes by foot from JR Mobara Station! From the north exit (bakery exit), turn left and walk for about 8 minutes, then turn right at the first major traffic light, where the railroad tracks curve.



Look! **CHI-BA+KUN** is the same shape of Chiba Prefecture!



CHI-BA+KUN is the official mascot of Chiba Prefecture. Mobara seems to be right about on **CHI-BA+KUN's** arm!

Chosei High School

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Brought to you by the International Affairs Committee at Chosei

WELCOME TO 長生高校

Established 1888



School Motto:

英知
高潔
氣魄

Spirit. Nobility. Wisdom.

Chosei High School
School Guide



Super Science High School Program

One of the highlights of Chosei is the Super Science High School (SSH) program, which has been implemented here since 2010. SSH is a designation given to top-performing schools in the sciences by MEXT (the Ministry of Education, Culture, Sports, Science & Technology in Japan). Students study advanced topics in science. Some students have gone abroad to multiple countries to give scientific presentations and share scientific knowledge.



Mathematical Theory of Spiral Shells

—To Research the Fossil Shells—

CHOSEI Senior High School
Mr. Kono Takafumi

Purpose of Research

To Research the transforming pattern of the fossil shells with the mathematical expression.

STEP1

Generally people think the growth pattern of spiral shells is expressed by the following Exponential Spiral " $r = ae^{b\theta}$ ". However, the expression couldn't express it well. So I decided to research it.

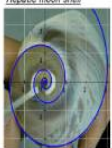
Since the change of vector was small around the end of the spiral, I came to think that equation of circle " $r = ac$ " would be attainable.

STEP2

I expected that the pattern of the spiral shells could be expressed by one expression with a trigonometric function. Finally, the following expression was found:

$$r = ae^{b\theta} \cos c\theta$$

Hepatic moon shell



Number	b	c
1	0.180	0.000
2	0.178	0.000
3	0.180	0.000
4	0.178	0.000
5	0.180	0.000
Average	0.180	0.000

Fig.3 Hepatic moon shell

As mentioned above, I thought growth pattern of spiral shells is as followed " $r = ae^{b\theta} \cos c\theta$ ", and I found the parameter is almost the same among the same species.

Using the result, I considered it would be possible to estimate the spiral before transforming and identify the species.



An example of a presentation made by an exemplarily alumnus while he attended Chosei (2011).

Our SSH program has won numerous awards, including, but not limited to, an "A" rank in Super Science Program. This ranking was given to the school from the Japanese government. Also, our school's mathlete team has won a valued prize at a recent competition.



Curriculum Information

Chosei students are able to take many classes of their own Volition during their three years here. These elective courses can be taken based on the academic needs or desires of students. Additionally, students are able to take courses that best suit their possible career paths. For example, a student who wants to be a doctor can take more science classes and another student who wants to study abroad can take more English classes.

General Students: 720 (6 classrooms per grade)
Super Science Students: 240 (2 classrooms per grade)
Total Number of Students: 960 (8 classrooms per grade)

All of our students are hardworking and **nearly 100%** of our students go to university!

English Education

An important point that Chosei realizes is the need for quality English education that provides preparation to enter the globalized world. We emphasize communication and interaction in our English classes that sharpen English skills. Students who opt to partake in the SSH program also have the opportunity to learn about and discuss various scientific topics in English!

We at Chosei engage 100% of our students in various enrichment activities that include in-class debates, discussions, presentations, interviews, and video conferences with foreign schools – all in English. These activities not only sharpen language skills, but internationalized social skills as well.



Making International Friends (left)



Math English Class (above)

Conference With Australia (Right)



Extra-Curricular Activities

Clubs

- ◆ Broadcasting Crew
- ◆ Chorus
- ◆ English-Speaking Society
- ◆ Fine Arts Club
- ◆ Flower-Arranging Club
- ◆ Junior Red Cross
- ◆ Japanese Calligraphy Club
- ◆ Japanese Chess Club
- ◆ Japanese Tea Ceremony Club
- ◆ Literature Club
- ◆ Mandolin Club
- ◆ Photography Club
- ◆ Science Club
- ◆ Social Research Committee
- ◆ Theatre Club
- ◆ Wind Ensemble



Athletics

- ◆ Basketball Team
- ◆ Baseball Team
- ◆ Free-Climbing
- ◆ Japanese Archery
- ◆ Judo (pictured)
- ◆ Karate
- ◆ Kendo
- ◆ Soccer
- ◆ Swimming Team
- ◆ Table Tennis
- ◆ Tennis (soft and standard)
- ◆ Track and Field
- ◆ Volleyball (boys' and girls')



Learn with Us!