

Greetings from Martinlaakso High School, Finland



located in Vantaa, near Helsinki

520 students and 31 teachers

3 different lines of studying:

-Main High School line: languages, history, art, economics etc.

-Mathematics + Natural Science (developing these subjects in Finland)

-Drama and Theater

great atmosphere, nice teachers, good food...

Examples of STEAM-lessons, team Finland



Leave the classroom, study on the spot

















Vantaa Martinlaakson lukio

The golden ratio in arts



Heli Groschup



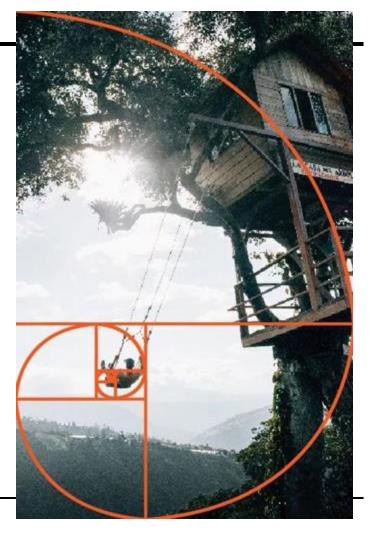
Golden ratio in architecture



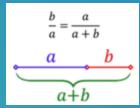


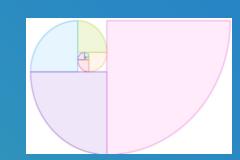


Golden ratio in nature + mathematical approach



Golden spiral



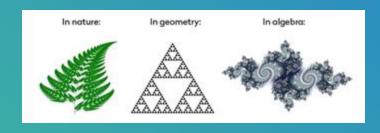


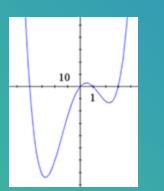
Golden ratio

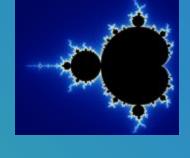
Fractals

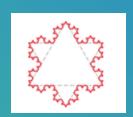
Von'Koch Snowflake

Golden ratio and 4 grade polynomian funktion connections















Chemical garden like growth of crystals









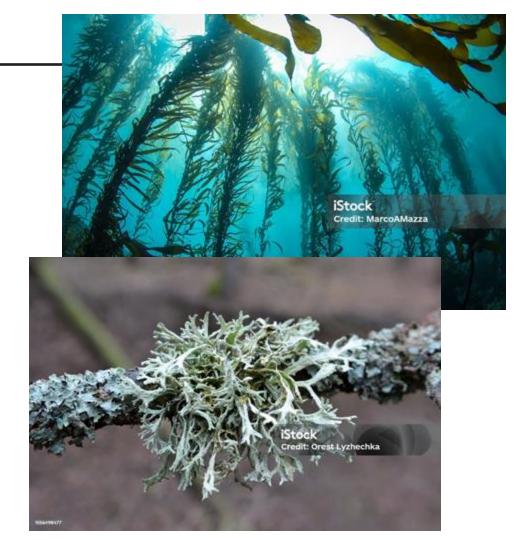
Target group: high school students

Duration: 30-45 min

Is it really chemistry?!?

Or is it biology?

Or is it art?



Thank you for your interest!

on behalf of Martinlaakso High School principal

Salme Sulander

