# The role of **Mathematics**

Thursday 20th - Saturday 22nd October, 2022



## Workshop Overview:

How is mathematics taught using an inquiry approach? How is mathematics addressed within and outside of the context of the programme of inquiry? How do learners construct and transfer meaning and then apply with understanding? The aim of this workshop is to provide participants with the skills, knowledge and ideas needed to successfully address the teaching and learning of mathematics within the context of their educational setting. Teachers will have an opportunity to discuss the teaching and learning of mathematics, share resources and work on relevant curriculum documentation.





Host School & Venue: Vienna International School Strasse der Menschenrechte I Vienna 1220.Austria Ph: +43 I 2035595-311 Contact: kdalton@vis.ac.at



## Workshop Understandings

The purpose of this workshop is to develop the following conceptual understandings:

- 1. Mathematics is a way of thinking and a language for making meaning.
- 2. In a balanced programme students learn, learn about and learn through mathematics.
- 3. Planning, teaching and assessing in mathematics should reflect all the essential elements and the IB learner profile.
- In a transdisciplinary programme students learn and apply subject-specific content as a means to understand the world, themselves and each other.
- 5. Students construct their understanding of mathematics through ever increasing levels of abstraction. (constructing meaning, transferring meaning into symbols, applying with understanding)
- 6. In the PYP, skills are learned within a context where students can pose problems, solve problems and understand new ideas through inquiry, reflection and collaboration.

- 7. The planning, teaching and assessing of mathematics needs to be differentiated in order to meet the broad range of understandings of learners. (both within the programme of inquiry and outside)
- 8. A wide range of resources, including manipulatives, supports the development or mathematical understanding.
- The PYP planner is a tool to facilitate concept-driven inquiry when units are developed around central ideas. (both within the programme of inquiry and outside)
- 10. In order to maximize understanding, students have to be able to critically reflect on and assess their learning.
- All PYP teachers have a role in collaborative planning and building a cohesive educational experience for the learners.
- 12. There is a range of IB PD that can offer opportunities to consider mathematics in the PYP.

MATHEMATICS IS A WAY OF THINKING AND A LANGUAGE FOR MAKING MEANING.



# Workshop Overview

#### Thursday 20th October, 2022

Venue:	Vienna International School - 'Aula'
08:00 - 10:00	Session I
10:00 - 10:15	Refreshment break
10:15 - 11:45	Session 2
11:45 - 12:30	Lunch
12:30 - 14:00	Session 3
14:00 - 14:15	Refreshment break
14:15 - 15:15	Session 4

#### Friday 21st October, 2022

Venue:	Vienna International School - 'Aula'
08:00 - 10:00	Session 5
10:00 - 10:15	Refreshment break
10:15 - 11:45	Session 6
11:45 - 12:30	Lunch
12:30 - 14:00	Session 7
14:00 - 14:15	Refreshment break
14:15 - 15:15	Session 8

#### Saturday 22nd October, 2022

Venue:	Vienna International School - 'Aula'
08:00 - 10:00	Session 9
10:00 - 10:15	Refreshment break
10:15 - 11:45	Session 10
	* Please note that lunch is not provided on the Saturday.

#### Saturday departures:

Please allow 40 minutes to get to the airport from school. Taxis can be organised to take groups of people to the airport after the workshop.

## **Registration Form**

You can register using the online form OR print this form, complete details and email to kdalton@vis.ac.at

#### From:

Ref:	<b>PYP Math</b>
Pages:	I of I
Email:	kdalton@vis.ac.at
Return to:	PYP Coordinator

School Name: School Address: **Contact Person: Contact Email: Contact Phone:** Name: Email: Participants:

I have read and agree to the safety policy and the cancellation policy of this workshop, as outlined in the workshop package.

Signed:

Registration closes October 14, 2022

# Fee and Payment

Please DO NOT make any payment until the workshop organiser has confirmed registration.

The workshop fee is  $\in$ 780 per person. In an attempt to encourage teams of teachers to attend, every additional participant from your school will only pay a fee of  $\in$ 750. This fee includes all tuition, lunches as well as morning and afternoon refreshments.

The fee should be paid into the following account:

Name of account:	Vienna International School
Account number:	655289403
Reference:	PYP Math & the name of your school
Swift Code:	BKAUATWW
IBAN number:	AT051200000655289403
Name of Bank:	Bank Austria
Bank Code:	12000
Address:	Donaustadtstrasse I, Vienna 1220, Austria

#### **Safety Policy**

Neither Vienna International School, nor its directors, officers or agents are responsible or liable for the safety and property of participants or their companions nor for any financial losses incurred if workshops are cancelled due to reasons beyond the control of the school, either during the workshops or any excursions related thereto.

Traveling to and from the workshop venue shall take place under the participants' sole responsibility. Participants are advised to seek information on potential health and security risks incurred by themselves or their companions and to secure adequate insurance coverage that includes reimbursement of any costs incurred should the event be cancelled.

#### **Cancellation Policy**

Cancellations received up to three weeks before the beginning of the event will be reimbursed 80% of the registration fee. Cancellations received after this deadline and 'no-shows' will be charged the full registration fee. This policy applies also in cases where visas are not granted.

#### IMPORTANT

On the bank transfer, please include:

- reference to PYP Math
- the name of your school

NB:

- The amount is Tax free according to the Austrian Federal Fiscal Code 34 BAO
- VIS has exemption from taxes.
- VIS tax number is ATU3780409

# Logistics

## Workshop Venue

The workshop will be held at

#### **Vienna International School**

Strasse der Menschenrechte I

Vienna 1220

(Ubahn stop: Kagran on the UI - 'red line')

## **Accommodation Information**

We find that it is easier for participants to make their own hotel arrangements, as often internet deals are better value, and can be booked with flights. This also offers individuals more flexibility.

Hotels within walking distance from the school:

Arcotel Donauzentrum (5min walk) https://donauzentrum.arcotel.com/en/ +43 | 2022 333

Strand Hotel (10min walk) www.strandhotel-alte-donau.at +43 | 204 4040

Alternatively, you might wish to select a hotel in the city centre. In this case, the commute is very easy. You would simply hop on the UI ubahn (metro) line at either Schwedenplatz or Stephansplatz. The journey only takes 10-15mins to Kagran, which is the stop near the school.

### **Travel Information - Airport to city**

There are several ways to travel to the hotels either in the area of the school or in the city from **Vienna International Airport:-**

#### TRAIN

There are frequent suburban trains from the airport into the city. The trip only takes 15-20 minutes. (Use the <u>fahrplan</u> link

## below)

Airport Driver: Airport to city or airport to Kagran (school) costs approximately € 38 **if pre-booked**. Ph: +43 | 22822

https://www.airportdriver.at/en

#### BUS

If you are staying near the school, or in the Schwedenplatz area there are also direct buses from the airport to these destinations.

https://www.viennaairportlines.at/

#### Other useful websites are:

http://www.wien.gv.at/english/ http://www.austria-tourism.at/us http://fahrplan.oebb.at/bin/query.exe/en







