

# Tangents

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## INSIDE THIS ISSUE

- KANGAROO MATH COMPETITION 2017 WAS A HUGE SUCCESS!! ①
- BEAVER COMPUTATIONAL THINKING COMPETITION ②
- TEACHER CONFERENCE 2017 ③
- NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS ANNUAL MEETING AND EXHIBITION 2017 ③
- KANGAROO MATH ROAD TOUR ④
- TRAVELOGUE ④
- NATIONAL STEM MOVEMENT EVENTS ⑤
- KMC 2017 AWARD CEREMONIES ⑥
- ANNUAL MEETING OF THE ASSOCIATION KANGOUROU SANS FRONTIERES (AKSF) 2017 ⑥
- KANGAROO MATH AMBASSADOR TRAINING OF TRAINERS ⑥
- SCHOOL HOLIDAY PROGRAMS ⑦
- LES ELFES INTERNATIONAL ⑦
- FROM EDITOR ⑧
- LATEST TITLES ⑧

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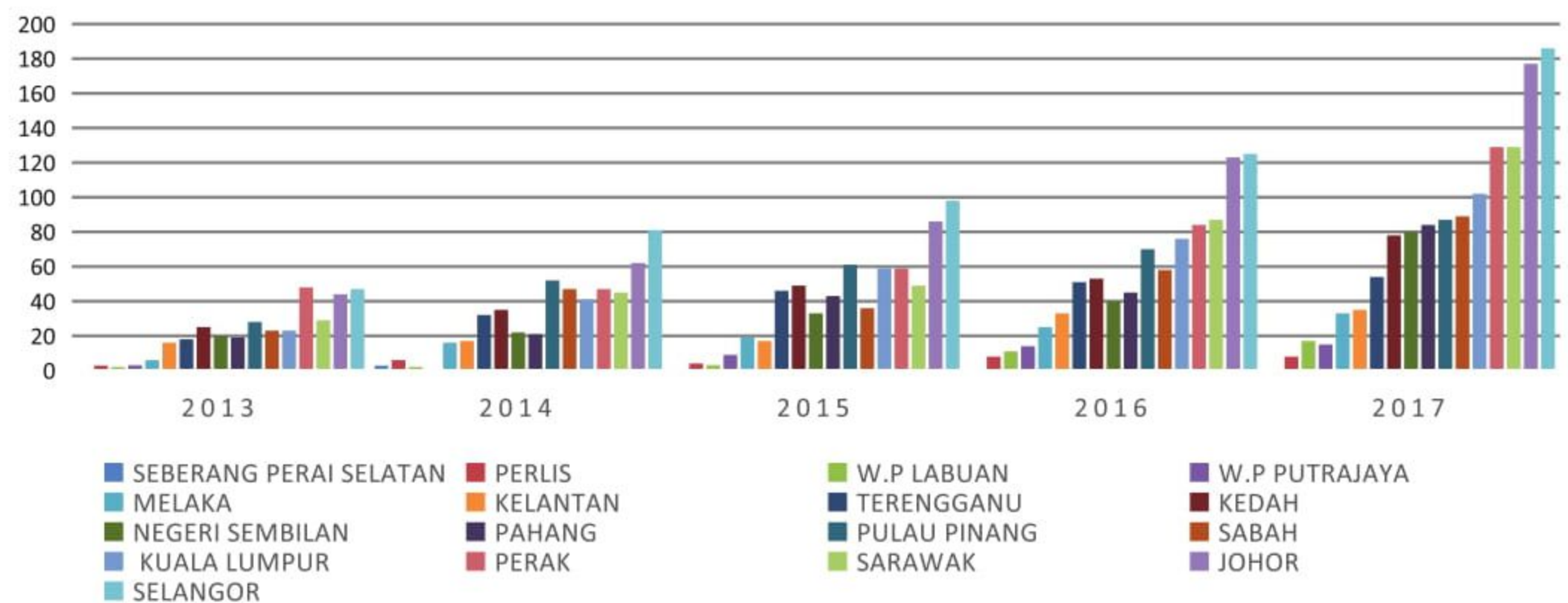
## KANGAROO MATH COMPETITION 2017 WAS A HUGE SUCCESS!!



Kangaroo Math Malaysia started the first quarter of 2017 by creating a new milestone with a record of 37,757 student participations from 1303 schools. If we were to compare with the previous year, number of participants have increased by 9419 students while participation from schools increased by 401.

This competition has been made possible through the cooperation between Association of Kangourou sans Frontieres (AKSF), Ministry of Education (MOE), Kangaroo Math Malaysia, Kangaroo Math Ambassadors and many others. Their commitments are highly appreciated. We would also like to express our sincere gratitude to all the teachers, parents and participants who have been supporting us from 2013 until now. KMC 2017's results were recently announced on the 1st week of May on our website ([www.kangaroomath.com.my/results](http://www.kangaroomath.com.my/results)). Congratulations to all students and we look forward to see you at the KMC Award Ceremony 2017 (August) and Kangaroo Math Teachers Conference 2017 (October).

### NUMBER OF SCHOOLS PARTICIPATED BY YEARS



Through the increasing participation in KMC, we hope that our goals to implement Higher Order Thinking Skills in mathematics education and to create a grassroots movement to promote mathematical excellence among students in Malaysia will get more support from the community. Congratulations to all the winners. We also wish all participants the very best in their mathematical education.

**Tangents** is the official publication of Kangaroo Math Competition Malaysia. It is published three times a year and distributed **FREE** of charge.

### FOUNDER & EDITOR-IN-CHIEF

M. Suhaimi Ramly

### CONTRIBUTORS

- M. Iznan Shamsuddin
- Ahmad Wafiuddin bin Harun
- Nornadia bt Zamri
- Rosmalinna Effarini bt Malek
- Saidatul Akmar bt Mohd Azlimi
- Noor Fahmi Zaharuddin b Moktarudin
- Muhammad Aidel b Salleh
- Muhammad Faiz b Ahmad Ismail
- Farah Hanum bt Ramli
- Balqis Amalina bt Mat Hasan
- Azhar b Aziz

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 55100 Kuala Lumpur



## K-Day Album 2017



Kangaroo Math Competition at SK Bandar Putra, Segamat.



Fifth year KMC participation from Academy TeamMathics.



Participation from SMK Seri Bali, Segamat, Johor.



All participation from SK Taman Tun Dr. Ismail, Kuala Lumpur.



Some of the students who took part in KMC 2017 from SMK Taman Perumahan Bedaun, Labuan.

## BEAVER COMPUTATIONAL THINKING COMPETITION



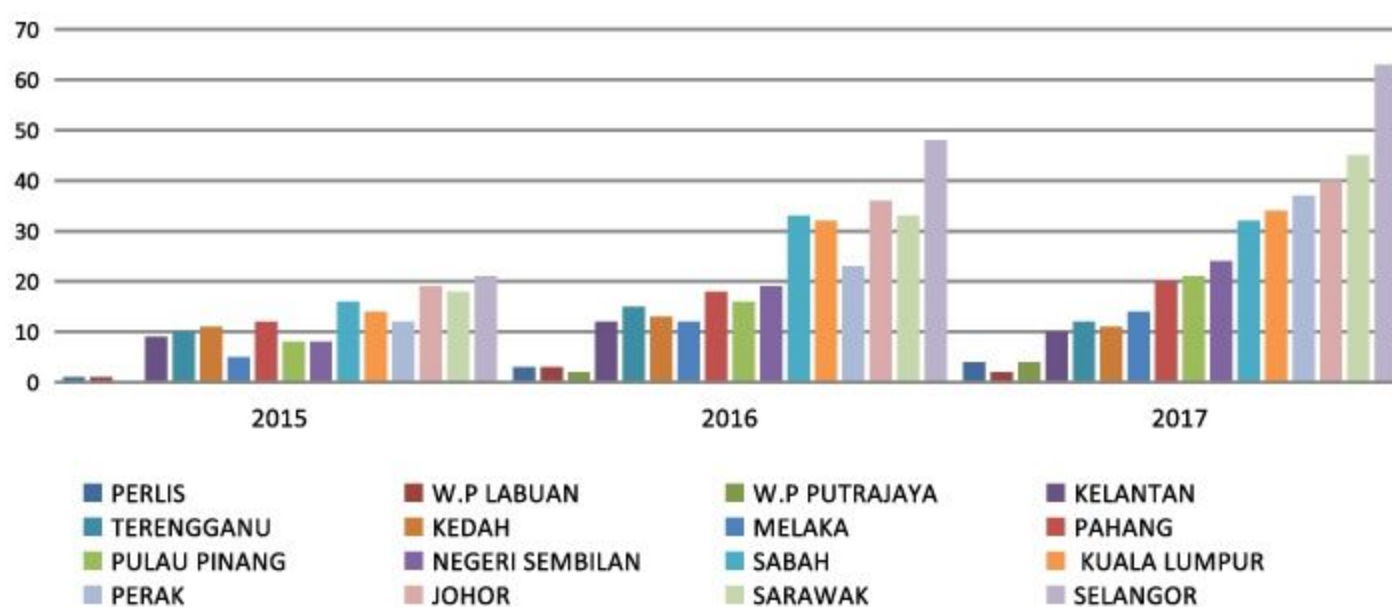
The song “Three Is a Magic Number” cannot be any truer as we witness Beaver Computational Thinking Competition being organized for the third time this year! This year’s BCTC was held from 18th to 20th April 2017 and we managed to reach our target of getting 5000 participants from all over Malaysia. Kudos to team Beaver!



Beaver Computational Thinking Competition is endorsed by KPM which allows participants to receive co-curricular marks at school level where as medalists will receive marks at national level. To schools that have not participated in Beaver Computational Thinking Competition, you can still join us next year. Head over to [beaver.my](http://beaver.my) for more info about this international competition! For more inquiries, you can email us at [hello@beaver.my](mailto:hello@beaver.my).

We look forward to see you at Beaver Competition Award Ceremony 2017 and for Beaver Computational Thinking Competition 2018! Good luck!

### NUMBER OF SCHOOLS PARTICIPATED BY YEARS



The popularity of Beaver shows that Computational Thinking is becoming more popular, both as a component in our curriculum, and as an essential 21st Century skills. We hope that our small effort will help develop Computational Thinking Skills among students in Malaysia who will later on contribute to the creation of a vibrant digital economy in this country.



## TEACHERS CONFERENCE 2017

KMC 2017 Teachers Conference will be held on the 28-29th October 2017 this year. Kangaroo Math Malaysia will invite teachers from all over Malaysia to participate to share their knowledge and experience in one of the sharing sessions. The Teachers Conference will be held at Vivatel Hotel, KL. We will update the details on our website, Instagram and FB page.

We invite all mathematics teachers in Malaysia to attend this conference. We hope that mathematics teachers and other

enthusiasts will get fresh insights and ideas from the speakers through this conference. Stay tuned!

Teachers who attended our Conferences in past years have expressed great interests and that it has opened their eyes to the possibilities in mathematical education. We promise a larger and grander conference this year, and we hope that many more teachers will join this experience. For those who have attended, do invite your colleagues to attend. We look forward to see many new and old faces at KMTC 2017!

## NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS ANNUAL MEETING AND EXHIBITION 2017

By M. Suhaimi Ramly, Director, Kangaroo Math Malaysia



On 3rd of April 2017, I attended the National Council for Teachers of Mathematics (NCTM) Annual Meeting and Exposition that took place at San Antonio, Texas, USA. NCTM is a national organization based which represents the mathematical education community in the US. The event attracted more than 10,000 mathematics educators from around the world. There were more than 700 sessions schedule throughout the week, including plenary addresses, symposia, presentations and discussion sessions by a wide variety of speakers from North America and other parts of the world.



M. Suhaimi in front of the NCTM entrance

The event was kicked off by an opening address by Prof. Jordan Ellenberg, professor of mathematics at University of Wisconsin and the author of "How Not To Be Wrong", a popular mathematics book which has been on the New York Times Bestseller list (I strongly recommend reading this book). In his address, Prof. Ellenberg pointed out the power of



An overview of sections at NCTM 2017

mathematics to make sense of the world and to identify between facts and falsehood.

Throughout the week I attended several presentations and talks, and communicated with a diverse range of speakers, from long-time academic researchers, to new teachers sharing their methods in classroom instruction. I was introduced to some of the current developments in mathematical education, especially on curriculum content, assessment methods, educational access and equity. I also managed to meet participants from other countries, who shared their experience as math educators in their respective countries.

Attending the NCTM Annual Meeting was an eye-opening experience. I learned a lot more than I expected from the sessions, and I managed to expand my personal network of math educators from around the world. Teachers from Malaysia would benefit much from attending the conference (perhaps it's a good idea to send a Malaysian delegate?) and learn the best practices from our counterparts from other countries. The next Annual Meeting will be held in April 2018 at Washington DC. You can find further details at <http://www.nctm.org/annual/>.

## Teachers Conference Album 2016



Dr. Sya Azmeela Shariff took a memorable photo with the Kangaroo Math Secretariats.



The opening of Kangaroo Math Teachers Conference was conducted by the director of Kangaroo Math Malaysia, Mr. Suhaimi Ramly.



Dr. Sakinah also made an appearance as one of the speakers in Kangaroo Math Teachers Conference.



Associate Prof Datin Dr. Sharifah Norul Akmar gave a talk on the pedagogy of HOTS in Kangaroo Math Teachers Conference.



All the participants took a picture with the speakers at the end of Kangaroo Math Teachers Conference.



## National STEM Movement 2017 Album



Students were enthusiastic to play with the edukit.



Students tried to answer past year KMC papers.



Mr. Wafi gave an explanation about Beaver to an interested parent.



Mr. Fahmi guided students on how to solve some mathematical questions.



Mr. Fahmi and Mr. Wafi assisting teachers at the STEM Colloquium, USIM.

## NATIONAL STEM MOVEMENT EVENTS

The National STEM Movement was established in 2015 to gear Malaysia forward into having a STEM-dominant education system. The movement aims to encourage students to be passionate about the fundamental subjects in STEM and later, nurture excellent scientists for the country. As such, the movement has planned many educational events in order to achieve their target.

### PAST EVENTS

**Karnival Kreativiti & Sains 4U 2017** was held on the 22nd and 23rd April at Ipoh, Perak and was organized by Ministry of Science, Technology and Innovation (MOSTI) and Malaysian Association of Creativity and Innovation (MACRI). ArdentEdu was invited to promote their two main competition, Kangaroo Math Competition (KMC) and Beaver Computational Thinking Competition (BCTC) and have received positive responses by visitors at the booths and many more had expressed their interest in joining the competition in the years ahead.

The National STEM Movement have kept ArdentEdu busy by giving us the honour to be a part of the **STEM Education Colloquium** which is one of the biggest event related to

STEM Movement as it involved various parties and have been scheduled to be organized in different regions in Malaysia. The STEM Colloquium in Nilai which was held on the 9th of May respectively were the first of the series of colloquiums that we have successfully participated in. More than 100 teachers are keen to be involved in ArdentEdu's upcoming projects and programs since the colloquium. On the 20th and 21st May, the school at Jaya One had successfully organized the **STEM Exploration Fair** and **STEM ExploRace** and **Innovation Bazaar** that aimed to attract participants from nearby schools to participate in their programs which catered mostly on science subjects including chemical experiments, video games and aviation simulations.

### UPCOMING EVENTS

A STEM programme will be held in December where students will get to participate in various activities. Stay tuned for the exact date and venue.

We hope to eventually see a rise in number of students who are keen to study the STEM subjects in the future.

## KANGAROO MATH ROAD TOUR 2017

Kangaroo Math Road Tour was organized for the second time and it was successfully done from early January till end of February 2017. The main objective of this program is to promote Kangaroo Math Competition (KMC) to teachers and students from all over Malaysia and to give a deeper understanding of Higher Order Thinking Skills (HOTS) in mathematics.

We received overwhelming responses from almost 140 primary, secondary and international schools including several matriculation colleges and Pejabat Pendidikan Daerah (PPD) around Malaysia. Our ambassadors played an important role in the education sector in Malaysia.

Some schools were informed about KMC from these ambassadors and they showed their interests by inviting us to give more explanations about KMC. We also appreciate the effort made by some of the ambassadors and teachers who gathered the teachers and students from nearby schools in one place to join this program.

Kangaroo Math Malaysia is optimistic in producing high quality students in mathematics. We believe that this program is crucial in helping teachers and students around Malaysia to have a better understanding about KMC and HOTS in mathematics. Let's be a part of the Kangaroo family!



## TRAVELOGUE

By Aidel Salleh, Secretariat Kangaroo Math Malaysia



The Northern region was our first destination and we spent a week there. We would like to thank one of our ambassadors, Mrs Mak Wai Fong for gathering students from several primary and secondary schools in Kuala Muda/Yan district with SMK Bandar Puteri Jaya and SMK Khir Johari as the hosts. En Sharizman, the teacher from SK Sungai Batang also hosted several primary schools teachers from Hilir Perak and Teluk Intan for this program.

We also received overwhelming responses from southern region even though the timing clashes with Chinese New Year holiday. We went to 13 schools within a week whereby KMC is new for most of the schools. We have to thoroughly introduce and explain about KMC to teachers and students to ensure that they are well informed about KMC and realize the importance of joining this competition.

We went for another 7-day tour program at 10 schools from the east coast region. We had the chance to meet with Prof Madya Dr Sabri Ahmad from Pusat Pengajian Informatik dan Matematik Gunaan, Universiti Malaysia Terengganu (UMT) during our sharing session in SK Tok Jiring. Till today, we are still planning to collaborate with him to train and introduce KMC to the mathematics teachers in Terengganu. This training-of-trainer program will focus more on content knowledge and pedagogy of HOTS which is applied in KMC questions. Stay tuned.

We received the highest number of invitations from the schools in central region. Once again,

we appreciate our ambassadors' effort, Mrs Bathmasree a/p Nagendrarao for inviting several primary schools in Petaling Perdana area to join this program in SK Puchong Jaya. Most of the teachers were eager to know more about KMC and they were interested in all our programs such as Kangaroo Math Teachers Conference and Kangaroo Math Workshop.

Our last region for Kangaroo Math Road Tour was in Borneo and we stayed for 18 days there.

We would like to thank our ambassador, En Zulkifli Zakaria who was able to gather all schools in Labuan attend talks at SK Sungai Lada for primary schools and SM Sains Labuan for secondary schools. We continued our journey to Sabah and we spent about one week to cover as many schools as we can in Sabah.

We also visited some of PPDs there and met one of the officers from Jabatan Pendidikan Negeri (JPN) Sabah to explain about our movement and competition. In Sarawak, we went to some rural area and had an adventurous journey to reach there. However, we would like to express our gratitude to our ambassadors from PPD Baram, Madam Tang Hooi Joo and from PPD Subis, Madam Kho Ling Hong and Mr. Hii Lu Kong as they managed to invite all of the schools in their districts to join this program. There were more than 60 schools in total who attended the program and most of them had some difficulties in terms of transportation. We were humbled by the efforts shown by the teachers as well as the students to attend this program despite having to face some difficulties due to transportation barrier.

We would like to thank all the teachers and students for welcoming us and lending their ears to hear our explanation attentively. We believe that all parties that were involved in this program have a clear view about the movement and competition from Kangaroo Math Malaysia.

## Kangaroo Math Road Tour 2017 Album



Kangaroo Math Road Tour at Labuan International School.



Kangaroo Math Road Tour Program at SK Jimah Baru.



Students of SK Desa Jasmin took a selfie with their teacher at the end of the program.



Photo session after Kangaroo Math Road Tour at SMK Methodist Sibul has finished.



A kangaroo pose from SK Puchong Jaya.



One of the venue for Kangaroo Math Road Tour which at Pejabat Pendidikan Daerah Julau.



Mr. Wafi with officers from Pejabat Pendidikan Daerah Sibul.



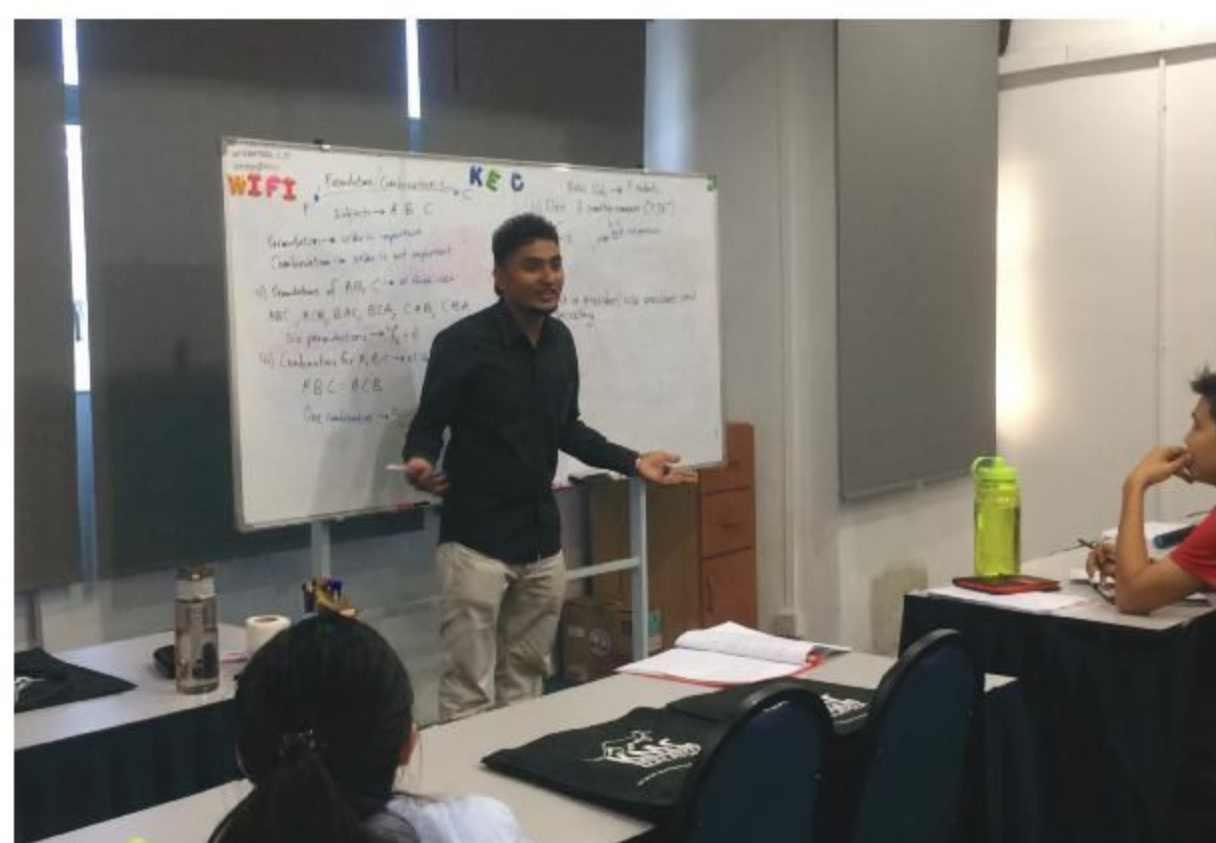
## Kangaroo Math Award Ceremonies 2017

19 August 2017

## Beaver Award Ceremonies 2017

September  
Venue to be announced

## Kangaroo Math Ambassador Training of Trainers Album



Mr. Jonathan as the head coach of Training of Trainer program at Central Region.



Mr. Suhaimi in the beginning of the program at Northern Region.



All the ambassadors from Central Region and Borneo at the end of the program.



One of the participants sharing her own idea at the TOT program.

## KMC 2017 AWARD CEREMONIES

Award ceremonies for Kangaroo Math Competition 2017 medalists will be held throughout the month of August. Every participant will receive a certificate of participation jointly issued by the AKSF, signed by the Chairman of the Board, Dr. Gregor Dolinar, Kangaroo Math Malaysia and Ministry of Education. Top scorers in the competition will receive special awards.

We look forward to reward the KMC winners, and meet up with teachers, parents, participants and the larger math community. The KMC Award Ceremonies are our happiest occasions of the year – we really enjoying chatting with the parents and teachers who worked hard for the students' success. We look forward to see you once again.

## ANNUAL MEETING OF THE ASSOCIATION KANGOUROU SANS FRONTIERES (AKSF) 2017

By Aidel Salleh, Secretariat Kangaroo Math Malaysia



On 25th - 30th October 2016, Muhammad Aidel and Noor Fahmi Zaharudin as the representatives from Kangaroo Math Malaysia had attended the Annual Meeting of the Association Kangourou Sans Frontieres (AKSF) 2016 in Lviv, Ukraine. They joined more than 100 mathematicians from 72 countries all over the world. Since 1995, the Annual Meeting of the AKSF takes place in a different country, in October or November. The subjects of the following year's contest are chosen. The documents and prizes are exchanged, the inter countries summer camps are scheduled and programmed.

We attended the opening ceremony at Ivan Franko University in Lviv on the first day. I was assigned in Pre-Ecolier group and Noor Fahmi Zaharudin was in Cadet group to finalize sets of

questions for all categories in Kangaroo Math Competition. This means that all countries will use the same sets of questions in their competition and these high quality questions were created by the best mathematician in those countries. We also had the opportunity to join the tour around the historical city of Lviv and made some friends with several representatives from other countries. General assembly which is the most important session was held on the last day of the meeting. There were some issues and proposals presented by some countries for the benefit of AKSF and the rest of the members have to vote on that proposals and issues. Argentina, Bolivia, Iraq, Saudi Arabia and Vietnam were voted as the new members of AKSF. Once again, Dr Gregor Dolinar from University of Ljubljana, Slovenia, who is also the Secretary of the International Mathematical Olympiad Advisory Board was voted as the chairmain of AKSF for the third time since 2015.

The next Annual Meeting of AKSF will be held in Luzern, Switzerland this upcoming 11th to 15th October. We hope to join this meeting again and also in the upcoming years.

## KANGAROO MATH AMBASSADOR TRAINING OF TRAINERS

Last December, we have successfully conducted a 'Training of Trainers' (ToT) workshop for our Ambassadors. This workshop is one of the Certified Training Program (may refer to our previous issue) that have been planned for teachers to become certified Kangaroo Math Trainers. There are two session for ToT, separated to Northern and Central Region. The event for Northern Region was conducted at Hotel Perdana, Taiping, Perak Darul Ridzuan on 1st December whereas for Central Region, the session was held at Kangaroo Education Centre (KEC) on 15th December making it the first ever program to be organized at KEC. We also launched the centre on the same day as well!

Teachers that have completed the training can

become ambassadors and they can now have their own training or workshop as preparations for Kangaroo Math Competition (KMC). They can also be invited to your school to give free talks about KMC, just like what we have done in Kangaroo Math Road Tour earlier this year. For more details, you can browse through our website where you can see all of our twenty ambassadors.

Next we plan to have more training and workshops this year as we want to increase the number of ambassadors so we can spread the news about Kangaroo Math Competition (KMC). For more info about the Ambassadors Program you may email us at [info@kangaroomath.com](mailto:info@kangaroomath.com).





Kangaroo Edu Centre offers two programs for this mid-year school holiday; 'Scratch for Kids' program and 'Math Olympiad for Beginners' program.

Scratch for Kids program is suitable for students aged 9-12 years old. Scratch is a free visual programming language that can be used by students, scholars, teachers, and parents to easily create animations, games, etc. Participants can really benefit from this program as it can be used for a wide range of educational and entertainment constructionist purposes too. From math and science projects, including simulations and visualizations of experiments, recording lectures with animated presentations, to social sciences animated stories, and interactive art and music. Participants will surely enjoy the learning session in the lab through some exercises, contests, practical assignments as well as the tutorial which will be conducted by our best trainer!



The facilitator guiding one of the students in C++ Programming.

Math Olympiad for Beginners is a program specially to expose secondary school students with mathematical questions that are challenging and different from standardized Mathematics syllabus. The students will be taught with 4 different topics; Number Theory, Combinatorics, Algebra and Geometry during the 2-day program. This is also a good exposure for students who are interested in joining the annual math competition, National Math Olympiad.

There are many more upcoming programs waiting for you this year! For registration and more info about all programs in our center, do visit us at [www.kangaroomath.com.my](http://www.kangaroomath.com.my) and fill in the registration form or contact us at [info@kangaroomath.com](mailto:info@kangaroomath.com) or 03-41430572.



The participants of Math Olympiad Prep Course with the trainers at the end of the course Workshop.



Kangaroo Math Workshop with the SM Sains Selangor students.

## LES ELFES INTERNATIONAL

Les Elfes International is an organization that organizes camps (Summer, Winter and Spring) and trips based in Switzerland that are open for 7-17 year old students. As an organization, the growth of an individual is our topmost priority. We are the only camp open all year long from 1st December until 31st August.

Our camps have been running since 1987, and we strive to provide the best possible experiences in fantastic environments which students will remember for a lifetime. The great news is, we are now in Malaysia! We are the first Malaysian agent of Les Elfes International, looking forward to bring more of our very own students to Switzerland to experience the time of their lives! <https://www.leselfes.my>



## School Holiday Program 2017

### August

- Math Olympiad Prep Course Phase 1 29th & 30th

### November

- Scratch for Kids 28th & 29th

### December

- C++ Programming Workshop 5th & 6th
- Mathematical Olympiad Prep Course 12th & 13th
- Kangaroo Math Workshop - Primary 19th & 20th
- Kangaroo Math Workshop - Secondary 26th & 27th



**IMPORTANT DATES ON KANGAROO MATH COMPETITION 2017**

**KMC Award Ceremonies**

19 August

**Kangaroo Math Teachers Conference**

28 & 29 October

**KMC Road Tour 3.0**

Early September

**Early Registration KMC 2018**

1st Nov- 31st Dec

**KMC Workshop**

Throughout the year

**Happy Hour KMC Books**

3rd week of Dec



**FROM THE EDITOR**

This is a great year indeed for KMC. We'd like to welcome a great number of new participants and new schools to the Kangaroo Math representing more than 1,000 schools from all over Malaysia. Thanks to everyone who made this big event an even bigger success.

Kangaroo Math is not just a math competition; it is a grassroots movement to promote mathematics among students in Malaysia. In simple terms, we want more students to be good in mathematics. This means to attain a high level of conceptual understanding as well as proficiency in mathematical skills. This leads to the development of higher order thinking skills, an essential component of the 21st century education.

Mathematics is the 21st cornerstone of STEM, and building capacity in mathematics is an essential item on the nation-building agenda. To promote mathematical thinking among our youths is to set them up to be productive and intelligent citizens of the future. By developing our human capital, we also develop our competitiveness as a nation.

We welcome all students and teachers to join our community and participate in our programs. We have expanded the Kangaroo team, and we hope to bring you more events this year. We are seeking Ambassadors among passionate math teachers to bring the Kangaroo experience to your area. Stay tuned for our annual Kangaroo Math Teachers Conference (details to be confirmed shortly). We will organize our second Road Tour this year, after our first one in January was fully booked. Come to the Kangaroo Education Center for workshops, math circles, and classes throughout the year. It's great to see the Kangaroo community grow.

I hope to see many of you in the coming months.

By M. Suhaimi Ramly,  
Director Kangaroo Math Malaysia.

**LATEST TITLES**

New books up for grabs! Come to our center or purchase online at [www.kangaroomath.com.my](http://www.kangaroomath.com.my).



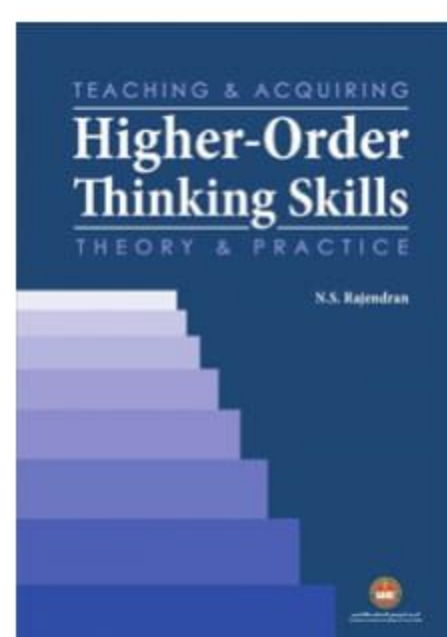
Beaver Computational Thinking Competition Problems and Solutions 2016 is one of the latest book published from Beaver Informatics Malaysia. This book contains all problem and solutions from the second edition of BTC in 2016, edited by Mr Khairul Anwar, director of Beaver Informatics Malaysia and Mr Ahmad Nubli, Manager of Beaver Informatics Malaysia.

Price : RM5 (exclude postage)  
Language : English  
No. of Pages : 1 - 63  
Publisher : Ardent Educational Consultants Sdn Bhd



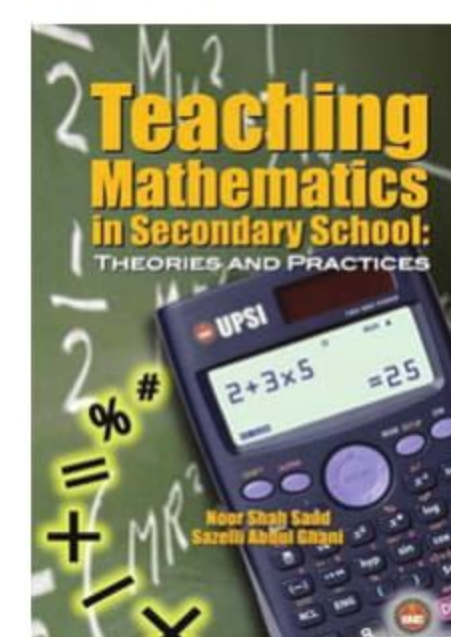
For 2016, Kangaroo Math Malaysia has published new titles: KMC Problems and Solutions 2016. These books contain all problems and solutions from KMC 2016, written by Mr Loke Zhi Kin, a coach of the Malaysian team to the International Mathematical Olympiad.

Price : RM15 (exclude postage)  
Language : English and Malay  
No. of Pages : 1 - 220  
Publisher : Ardent Educational Consultants Sdn Bhd



Higher Order Thinking Skills provide you the necessary knowledge, skills, and strategies to both educators and parents to nurture the growth of thinking skills among their students and children. It is written by Rajendran Nagappan who is currently a Professor at Universiti Pendidikan Sultan Idris in Malaysia and teaches courses on Pedagogy and Thinking Skills.

Price : RM36 (exclude postage)  
Language : English  
No. of Pages : ix-189  
Publisher : Universiti Pendidikan Sultan Idris



In this book, the knowledge required by the mathematics teacher in developing skills to each effectively will be discussed. Various models of teacher knowledge were developed by researcher in teacher education to assist teachers as professionals to teach effectively.

Price : RM35 (exclude postage)  
Language : English  
No. of Pages : xv - 281  
Publisher : Universiti Pendidikan Sultan Idris