

# M.A.M.T.

MANITOBA ASSOCIATION OF MATHEMATICS TEACHERS

AND



are pleased to present:

## Three 3 day AIMS Summer Math Workshops in 2017

On

Tuesday, July 4 (K-2) (3-5) (6-9); Wednesday, July 5 (K-2) (3-5) (6-9); Thursday, July 6 (K-2) (3-5) (6-9)

At

MITT (Manitoba Institute of Trade & Technology)

130 Henlow Bay

**Winnipeg, Manitoba**

**Registration Fee: \$200.00 for 3 day session**



### **Professional Learning Division**

#### *Vision Statement*

**AIMS** (Activities Integrating Math & Science) is a non-profit organization dedicated to assisting teachers to facilitate the development of robust mathematical and / or scientific knowledge within their students. The Professional Learning Division of the AIMS Center for Math and Science Education is committed to empowering teachers to strengthen their students' conceptual, representational, and abstract understanding of math and science content.

Their goal is to facilitate powerful professional learning opportunities for educators, modelling hands-on math and science tasks which allow them to experience and learn methods to successfully incorporate hands-on manipulatives into their math and science classrooms. These workshops are designed to assist teachers in changing or altering their current teaching beliefs and / or practices.

## Session Descriptions:

### K-2

July 4 & 5- Operations and Algebraic Thinking

July 6 - Number and Operations Base 10

### 3-5

July 4 & 5- Operations and Algebraic Thinking

July 6- Number and Operations Base 10

### 6-8

July 4, 5 & 6- Expressions, Equations and Functions

### **K-2 and 3-5 Operations and Algebraic Thinking**

Algebra is a powerful set of tools for representing situations, analyzing mathematical relationships, making generalizations and solving problems. It extends well beyond the limited types of problems once filling traditional algebra texts and can serve as a set of approaches in a student's mathematical toolkit. Today, algebra can be used to deal with data and make predictions. If we do our job well to develop algebraic thinking across the grades, students will never be heard to say that they had no use for algebra. Rather, they will incorporate algebraic techniques into their broader mathematical thinking to deal with everyday life as well as advanced applications in mathematics and science. Lessons chosen for these days will give the attending teachers techniques that help students develop an algebraic sense.

### **K-2 and 3-5 Number and Operations Base 10**

Base-ten is our most common number language. Intermediate students must understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals, as well as explore numbers less than zero by extending the number line. AIMS lessons chosen for this day will give attending teachers added experiences they can implement into their classroom teaching to help students develop a better command of our Base-ten number system.

### **6-9 Expressions, Equations and Functions**

In grades 6-9 students will need to be able to solve real- life mathematical problems using numerical and algebraic expressions and equations while applying and extending previous understandings of arithmetic to algebraic expressions. Their reasoning skills will be utilized while solving one or more variable equations and inequalities. They will need to understand the connections between proportional relationships, lines, and linear equations, and also this leads to a need for understanding functions. Using hands-on AIMS lessons educators will discover and learn other ways to promote the needed skills for understanding Expressions, Equations and Functions for the 6<sup>th</sup> thru 9<sup>th</sup> grade students.





Each workshop participant will receive digital access and have download capabilities to all the activities completed at the workshop sessions. **Spaces are limited. Register ASAP to avoid disappointment on the registration form on the following page.** Snacks and coffee will be provided. Bring a reusable water bottle if you prefer water as your beverage of choice.

# Registration for AIMS® Professional Learning Workshop



**Cost \$200.00 for 3 day workshop**

**Location:**

**MITT**

**130 Henlow Bay**

**Winnipeg, Manitoba**

**I would like to register for the session:**

- K-2 , July 4, 5& 6, 2017**
- 3-5, July 4, 5 & 6, 2017**
- 6-9, July 4, 5 & 6, 2017**

**Name:** \_\_\_\_\_

**School:** \_\_\_\_\_

**Home Address:** \_\_\_\_\_

**Phone Number:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Confirmation will be sent out via email. Receipts will be issued at the session.**

Please make cheques payable to MAMT. (We do not accept credit cards.)

Payment must accompany the registration form.

**Questions?** Please call Dianne Soltess at 204-837-7168 or email at [dsoltess@sjsd.net](mailto:dsoltess@sjsd.net)

(I am working during the day so I will not be answering / returning phone calls until evening.)

Or Contact Sandy Margetts at 204-727-7330 or email [margetts@brandonu.ca](mailto:margetts@brandonu.ca)

Send completed form and cheque to:

Dianne Soltess  
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Winnipeg, Manitoba  
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