



# FAMILY MATH NEWSLETTER INTERMEDIATE EDITION

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## Math Talk: International Day of Light

“The International Day of Light is celebrated on May 16th each year, the anniversary of the first successful operation of the laser in 1960 by physicist and engineer, Theodore Maiman. This day is a call to strengthen scientific cooperation and harness its potential to foster peace and sustainable development” ([International Day of Light](#))

A laser beam travels from point A to point B, which are 300 meters apart. The speed of light in air is approximately  $3 \times 10^8$  meters per second. **How long does it take for the laser beam to travel from point A to point B?** (Hint: Use the formula:  $Time = Distance/Speed$ ).

## Game: Broken Calculator

“Sam's calculator got smashed, but some of it still works. Can you help Sam get the answers?”

Try: [Broken Calculator](#)



## “Maths at Home: Just Jottings”

Explore [nRich Maths at Home](#) to explore many different mathematics activities that only involve a pencil and paper!



## Problem Solving: Access for Accessibility and Inclusion

“Red Shirt Day of Action for Accessibility and Inclusion is a day when people across Canada come together and wear red to create a visible display of solidarity: to show their support for disabled people and their families, celebrate the achievements of disabled Canadians, and to pledge their commitment to help create a fully accessible and inclusive society” ([Easter Seals - Red Shirt Day](#)).

In Ontario, wheelchair ramps located in a barrier-free path of travel need to meet several specifications ([The Ontario Building Code | Ramps](#)). **Design a wheelchair ramp for a familiar location that meets Ontario building codes.**

## Math in the Workplace: Photonics Technician

“Photonics technicians build, install and troubleshoot equipment such as lasers, optical systems, fibre optic devices, telecommunications equipment, and small control systems, and assist scientists or engineers in the conduct of photonic experiments.”

### Where's the math?

- Scientific notation
- Unit conversion
- Introductory algebra
- Powers and roots
- Ratio and proportion
- Exponents and logarithms
- Graphing
- Geometry
- Angle measures in two and three dimensions
- Trigonometry

Source: [SPIE Digital Library](#)