

21th Year

# Cosmic Connections



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**April 8, 2024 Total Solar Eclipse visible**

**In-Class Grade 9 & 12**

**Astronomy Workshops**

[www.cosmicconnections.ca](http://www.cosmicconnections.ca)

**(416) 728-0062**

**2023—2024**

# Astronomy Workshops...

**You and your students will embrace the glories of the night sky right in your classroom.**

## **Grade 9 & 12 Astronomy Workshops:**

This workshop will take the student from the Earth to the edge of the observable universe.

It is designed to address the astronomy requirements within the science curriculum.

## **Topics we explore:**

Solar Eclipses

Meteors

The Solar System

Space Exploration

Exo Planets

Black holes

Possible life elsewhere in the universe

Lunar Eclipses

Comets

Nebulae

Galaxies

Aurora

Stellar Evolution



Dynamic In-Class Presentation

## **Benefits of our astronomy program**

- ◆ All of the presentations are completely open to questions making each presentation unique and very dynamic
- ◆ The students learn within an environment in which they are comfortable, their own school
- ◆ The program delivers the latest news and events in the field of astronomy and space exploration to the classroom.
- ◆ You can maximize the learning experience at a low cost to the students with no bus fees or lost traveling time

## **Tips:**

- ◆ This presentation is most effective at the beginning and middle of the astronomy unit.
- ◆ Have the students think of and write down a few questions a day or two before the presentation.
- ◆ Program length: 1 full period

# Evening Star Parties...

The optional evening star party gives students, family members and teachers a unique opportunity to view the wonders of the night skies through our telescopes with their own eyes.



Large Computerize Telescopes

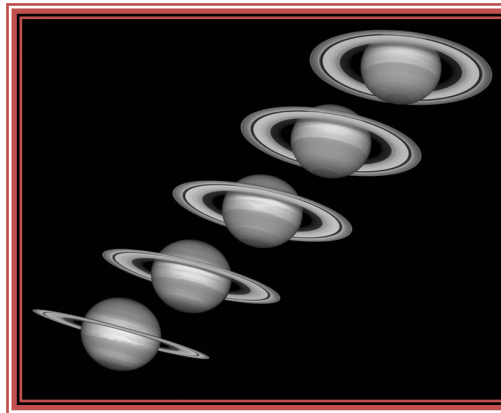
Star parties will only occur if the weather is favourable for telescope viewing.

The telescopes provide amazing views of the planets and moon that students and parents will remember for a lifetime. The evening will conclude with a tour of the constellations using a powerful laser pointer .



See the moons and cloud bands of Jupiter

**See Saturn's magnificent rings and moons.** Saturn really is a show stopper. Typical comments "That can't be real...it's a sticker inside the telescope...that's amazing!"



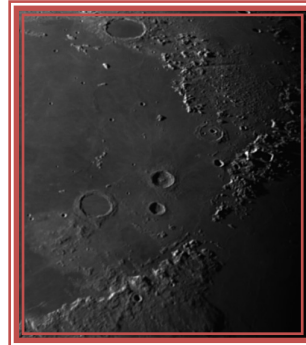
**Great views of the moon.** The students will see hundreds of craters, projection rays and mountain ranges. The best time to view the moon through the telescope is near the first quarter phase.

## Tips:

- ◆ Check out the website under "Programs/Star Parties" for a monthly planet viewing guide and helpful tips on running a successful star party
- ◆ All Grade six students **MUST** be accompanied by an adult (other family members are also welcome and encouraged to attend)
- ◆ Evening star parties will not be offered to schools outside of Peel Region after March break due to late sunset times

# Monthly Moon & Planet Schedule...

The best moon phase to view through the telescope is from crescent to waxing gibbous. The shadows in the craters reveal amazing surface detail .

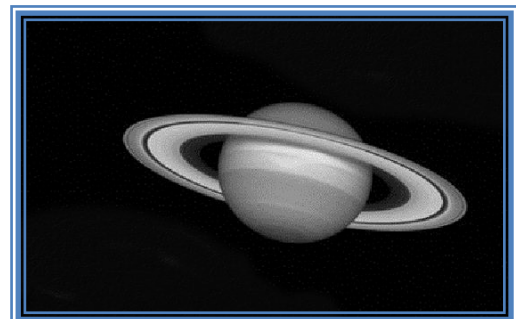


## Moon Phases 2023–2024

<u>Month</u>	<u>Crescent</u>	<u>First Quarter</u>	<u>Full</u>	<u>Planets</u>
September	19	22	29	Saturn
October	18	21	28	Saturn & Jupiter
November	17	20	27	Saturn & Jupiter
December	16	19	26	Saturn & Jupiter
January	14	17	25	Saturn & Jupiter
February	13	16	24	Jupiter
March	14	17	25	Jupiter
April	12	15	23	Jupiter
May	12	15	23	



See the moons and cloud bands of Jupiter



See Saturn's magnificent rings and moons

# Booking a Workshop...

Booking a presentation is easy

Email or call Brian Cheaney at [info@cosmicconnections.ca](mailto:info@cosmicconnections.ca) or call anytime at (416) 728-0062

Please supply your schools name, contact person, phone number, approximate number of students that will be participating in the program and the date you wish to book.

Within 24 hours you will receive a confirmation email.

You will be contacted again approximately two weeks before the event to discuss any last minute details.

## **The Fees:**

The fee is \$7 per student (minimum invoice \$200)

Star Parties remain FREE when booked with a presentation. Schools outside of Peel Region wishing to hold an evening star party are required to book the event between September and March Break.

## **Payment:**

On the day of the event a blank invoice will be provided. I will complete the invoice based on the number of students present.

All programs are GST and HST exempt.

Please provide a cheque payable to “Cosmic Connections” on the day of the event or mail it shortly afterwards.

## **All presenters and volunteers have a criminal record check (CRC) and Vulnerable Sector Search (VSS)**

Should you require any additional information please call Brian Cheaney  
at (416) 728-0062 at anytime

**Clear skies**