

(Gr. 9&10) Week 5: Self-Directed Learning

Continue your journey of learning over the summer.
You can choose to explore as many activities as you wish each week.
Challenge yourself to at least 3 in a row- just like playing Tic Tac Toe!

Sum Fun

How can you prove:

$$1 + 2 + 3 + 4 + \dots + 199 + 200 = 20100$$
$$1 + 3 + 5 + 7 + 9 + \dots + 399 = 40000$$
$$2 + 4 + 6 + 8 + 10 + \dots + 400 = 40200$$

[Sum of Natural, Odd or Even Numbers](#)

What's your Passion?

Click [HERE](#) to access the slide deck to explore some videos about passion and curiosity, and work through the questions.



Take Tech

The word "technology" makes people think of computers or phones, but it actually means the practical application of knowledge. Throughout your High School career you can take Tech courses in Construction, Hairstyling, Computers, and more!

[Learn more about Technology courses here.](#)

Click here to take a [Quiz](#) about courses you might want to take!

What Came First?

Test your knowledge of world history, events, and art playing "[What Came First](#)"?

Play a few rounds, and make note of any dates that surprise you.

Design your own "offline" version of the game: create cards with people, works of arts, buildings, significant events" and challenge your friends and family to your own "What Came First".

Learning in the Community

You and your family can learn together using free passes the Toronto Public Library offers to visit the Zoo, the Aquarium, the Science Centre and many other Museums around the city.

[Click here](#) to read how an adult with a Library card can get access to the pass!

There is even a [book list](#) to go with each site you can visit!

Sock Ball Golf

Click [HERE](#) to try the activity.

Extension Activity:

Warm ups that include aerobic, agility, strength and balance exercises are proven to prevent injury. Create your own warm-up using [these suggested exercises.](#)



Community and Online Learning

There are so many great learning opportunities outside of school hours! If there is something you want to learn, there is likely a YouTube video or free online resource to help you get started!

[Toronto Public Library](#) - Programs and courses (crafting, coding, gaming etc) at Libraries across the city.

[Learn/Practice a Language](#)- All you need is a (free) Library card!

[Coding Workshops](#)- Try the Teen or Kids Learning Code Workshops

Pecha Kucha

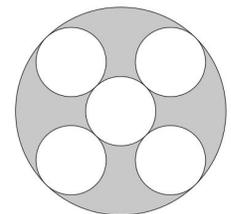
Do you have a passion for something, anything? Want to share it with the world? Learn everything you need to know about giving an engaging and entertaining presentation on a topic you love!

Click [HERE](#) to access the slide deck.



Shaded Area

Find the area of the shaded region if the diameter of the big circle is 12cm and all of the smaller circles have the same radius. What is the circumference of a circle with an equivalent area?



[Finding the Shaded Area.docx](#)