

# CCLC COMMUNICATIONS

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## Q4 2010 HIGHLIGHTS

### Greater Toronto Area



Care Canada Learning Centre continued to expand its service area in Q4 2010. We are now providing tutoring services in Brampton in the West and Stouffville in the East.

As we progress through Q1 2011, we are continuing to seek opportunities in the surrounding areas in both providing tutoring services and partnering with top qualified tutors to serve our students in these areas.

Please feel free to contact us for further information.

## SCIENCE NEWS

### You can mend a Broken Heart

Today if any one has a heart attack; doctors can not repair the damage. The body does not make new heart cells. Engineers and Physicians at the University of Washington have built a scaffold that can deliver new cells to the damaged portion of the heart. The scaffold, which measures 0.3mm wide and 4mm long, can be injected into a damaged heart, where it will foster the growth of stem-cell derived cardiac muscle cells and accelerate the body's ability to supply oxygen and nutrients to the transplanted tissue, and then eventually dissolve.

### High Quality Spider Silk

Used by spiders as a web framework and safety line, spider dragline silk is five times stronger than steel, three times tougher than Kevlar, and finer than a human hair. Bio-engineers have devised a process that could be used to mass-produce artificial silk with the same properties as natural silk.

## PROTEIN DIET

### Main Ingredients:

- ◆ Cooked Roast: 200g
- ◆ Whole Wheat Pita Bread: 2
- ◆ Tomatoes: 1 medium
- ◆ Red Onion: 1/2 medium
- ◆ Cucumber
- ◆ Alfalfa Sprouts
- ◆ Blue Cheese Sauce: 2 Tbsp
- ◆ Salt and Pepper

### Directions:

- ◆ Wash and slice the vegetables.
- ◆ Cut the roast in to small pieces.
- ◆ Warm the pita breads for 20 seconds.
- ◆ Assemble the vegetables on the pita bread, add the roast pieces, alfalfa sprouts and pour the sauce. **Enjoy.**

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## HISTORY NEWS

### Space filler

The ancient Greeks believed that “ether” is filled between heavenly bodies. The old Aristotelian antipathy to a vacuum took on a new life in the second half of the nineteenth century with the new science of energy. Scientists designed experiments to detect movements of the earth through the ether, and to their surprise came up no apparent motion. It was a young examiner who killed off the ether. In 1905 Albert Einstein published a paper on “Electrodynamics of Moving Bodies”. How could the universal ether be at rest in one frame of reference, but moving in another? Einstein found no place for the ether itself. Now ether is nothing more than a ghost, a sad fate for a substance with such a glorious history.

## FEAR FACTOR

### Why some of us are still afraid of the dark

A gene is responsible for brain-derived neurotrophic factor, which is part of a growth factor involved in learning and memory. The human fear conditioning experiments suggests that everyone was able to learn. It is important to understand fear for two reasons. 1) There are specific disorders that are completely fear based. 2) This is related to some areas of psychiatry. What’s going on in the brain that’s making it hard for people to unlearn the fear? No one really knows exactly. The pre-frontal cortex (in brain) is a top-down cortical region that is supposed to help you suppress fearful memories, or make you learn new memories.

## HIGHLIGHTING...

### SAMIR SHARIF.

Samir Sharif is a professional engineer with around 9+ year experience in the Oil & Gas Industry outside North America. He also carries with him around 16+ year of teaching experience for students and curriculum all around the globe which includes British, American, IB and also local Ontario curriculum.

Although Samir can teach subjects like Mathematics, Physics, Chemistry, Biology, Bio Chemistry, American History, Language Art, Humanities, General Sci-

ence Statistics and World History. He enjoys teaching Maths, Physics, Chemistry and History the most.

Samir travels a lot during his day teaching students from Mississauga, Brampton, GTA and York Region, he as a teacher believes in a very strong saying “Don’t try to fix the students, fix ourselves first.

The good teacher makes the poor students good and the good student superior. When our students fail, we, as teachers, too, have failed.” This be-

lief of his helps in leaving positive impact on the students which he feels pride in.

Samir holds a Bachelors Degree in Instrumentation Engineering from the University of Bombay and possesses over 9 year experience working as Project Engineer in the Oil & Gas Industry in Middle East and India.

In Ontario Samir has students at various education levels and sections which goes from the University of Western Ontario to the University of Kingston. He has been a tutor at our centre since 2010.



Samir Sharif , BEng

### Math Trivia

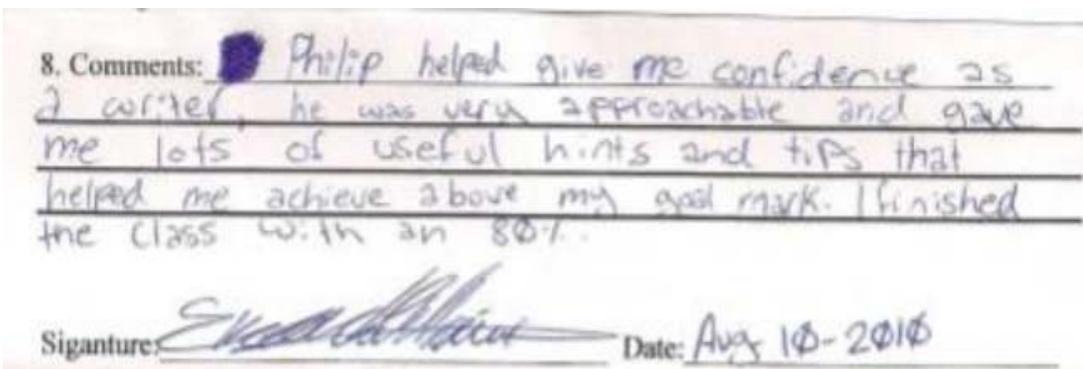
**Qa:** How many equal sides does an icosahedron have?

**Qb:** What number does "giga" stand for?

**Qc:** What digit did Arab mathematician al-Khwarizmi give to the West around 800 B/B?

Zero.  
Ans: a. twenty b. billion c.

## WHAT YOU SAID...



Thank you Eman Hillawi (Gr.12. English)