

Canada's New Polymer Bank Notes

Canada's polymer bank notes represent an exceptional combination of design and technology. The main objective when issuing any new bank note series is security – to stay ahead of counterfeiting.

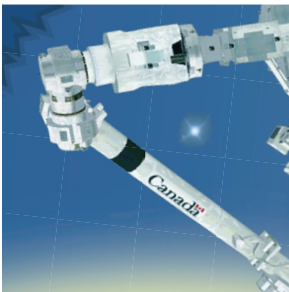
While increased security is paramount, the new notes also incorporate designs that celebrate the Canadian experience and evoke our country's spirit of innovation.

In November 2013, the Bank of Canada will start issuing new \$5 and \$10 polymer bank notes. The new \$100, \$50 and \$20 bank notes are already in circulation.



Canadarm2 and Dextre

Robotics innovation is Canada's ongoing contribution to the International Space Station program and demonstrates our commitment to space exploration. The Canadian-built Mobile Servicing System is the sophisticated robotics suite that helped to assemble the International Space Station in orbit. This system consists of *Canadarm2*, *Dextre* and the *Mobile Base*.



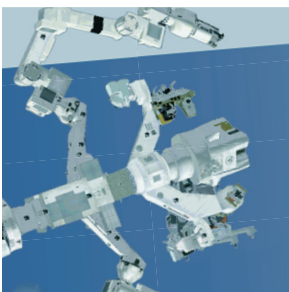
Canadarm2

Canadarm2 is the centrepiece of Canada's contribution to the International Space Station. The 17 metre-long robotic arm plays a major role in the assembly and maintenance of the station.



Mobile Base

The *Mobile Base* is a moveable work platform and storage facility. It serves as a base for *Canadarm2* and *Dextre*.



Dextre

Dextre, which is short for Special Purpose Dexterous Manipulator, is a sophisticated two-armed robot that attaches to *Canadarm2*. It acts as a space handyman and performs routine upkeep and repair work outside the International Space Station so that astronauts can devote their time to scientific research.



Astronaut

The astronaut depicted on the \$5 note represents all Canadians who have contributed to the space program and the scientific research conducted on board the International Space Station.

For more information, visit the Canadian Space Agency at: www.asc-csa.gc.ca.

Design of the \$10 Note



The Canadian

The expansion of the railway in the 1880s was hailed as a remarkable feat of engineering for a young country with a varied and often treacherous terrain. At the time, the railway was the longest ever built, and its completion demonstrated Canada's pioneering spirit by linking our eastern and western frontiers, connecting people, and facilitating the exchange of goods. Today, The *Canadian*, winding its way through the Rockies showcases Canada's natural beauty and symbolizes what we accomplished as a young nation.



The Canadian

The train featured on the \$10 note symbolizes the engineering feat of linking Canada by rail.



The Canadian Rockies

Located in Jasper National Park, the mountains featured on the \$10 note showcase the grandeur of the Canadian Rockies.



Map of Canada's Passenger Railways

The map on the back of the \$10 note shows VIA's network of passenger rail routes.

For more information, visit: www.viarail.ca, www.railcan.ca and www.nrcan.gc.ca.

Trivia

Test your knowledge of Canada's space exploration and railway system with this quiz.

Canadian Space Exploration

1. Dextre is often referred to as the:
 - a. "Canada hand"
 - b. "handyman"
 - c. "small *Canadarm*"
2. Who was the first Canadian astronaut to go into space?
3. True or False? In space, astronauts can eat a tortilla but not a slice of bread.
4. In what year did the original *Canadarm* make its space debut?
5. True or False? Astronauts are allowed to tweet.

Canada's Transcontinental Railway

1. In what year did the first train trip from Quebec to British Columbia take place?
2. In what city did the transcontinental railway line originally end?
 - a. Port Coquitlam
 - b. Vancouver
 - c. Port Moody
3. What cities correspond to the start and end point of The *Canadian* train route?
 - a. Montreal – Vancouver
 - b. Toronto – Vancouver
 - c. Toronto – Victoria
4. One major challenge to the completion of the transcontinental railway line was finding a passage through the Selkirk and the Rocky Mountains. Major Albert Bowman Rogers was sent to the area to search for a mountain pass where the railway could be built. What is the name of that mountain pass?
5. What is the highest mountain of the Canadian Rockies?
 - a. Mount Robson
 - b. Mount Elbert
 - c. Mount Logan

Answer key:

Canadian Space Exploration

1. a
 2. Marc Garneau
 3. True. In space, foods that crumble when eaten are avoided. Crumbs can damage equipment or be accidentally inhaled by astronauts as they float inside the spacecraft.
 4. 1981
 5. True. See @Cmdr_Hadfield on Twitter.
1. 1886
 2. c. In 1887 the railway was extended 20 km from Port Moody to the town of Granville, now known as Vancouver.
 3. b
 4. Rogers Pass
 5. a

The Canadian Transcontinental Railway