NUCLEAR WEAPONS

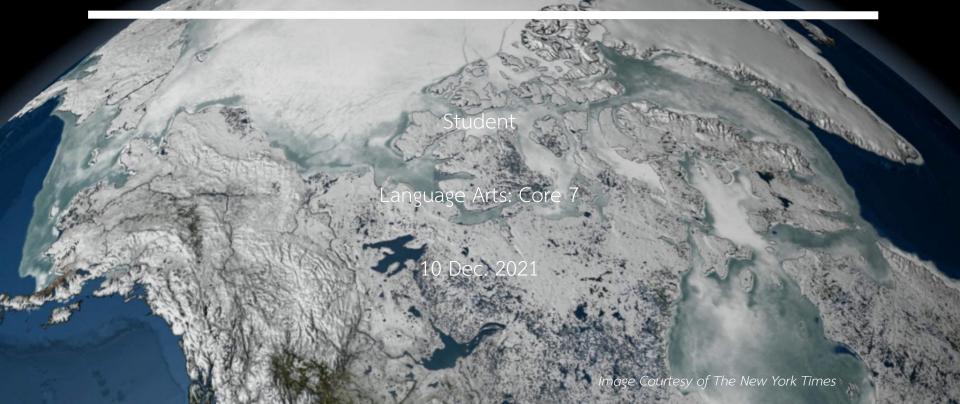


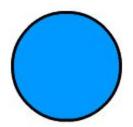
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A B61 nuclear bomb

Image Courtesy of Dave Bezaire



Courtesy of Pilar Newton

The Majestic Planet Earth

WHAT IS NUCLEAR WINTER?



A depiction of the effects of nuclear winter

- · Blocked-out sun (Merriam-Webster)
- Smoke "clogs" atmosphere
- India vs Pakistan
 - ~100 weapons each
 - 5M tons of smoke (Alan Robock)
- Global Famine (Action Against Hunger)
- O.5% weapons risks 2B
 (International Physicians for the Prevention of Nuclear War)
- Rapid marine extinction (ScienceDaily)
- Ocean acidification
- Temperature drops



ENVIRONMENTAL PRODUCTION COST

- Uranium and Plutonium
- 1948-1996; \$165.5B element supply (The Brookings Institution)
- Radioactive mixture
- >100M gallons liquid waste (EPA)
- \$4.5B annual stockpile stewardship (Schwartz)



Photo Courtesy of Scholastic

PAST DISASTERS

- 1986 Chernobyl, Ukraine
- 18 mile radius unlivable 150 yr.
- Thyroid cancer epidemic
- Birth defects
- 1957 Kyshtym, Soviet Union
- Kept secret
- Evacuated week later
- Countless radiation-related diseases



Photo Courtesy of Flickr

(History)

PROGRESS TOWARDS A NUCLEAR BAN

- The Treaty on the Non-Proliferation of Nuclear

Weapons (NPT)

- The Treaty on the Prohibition of Nuclear Weapons

(TPNW)

- Neighbors' progress (atomicarchive)
- U.S. Former President Obama (DW)



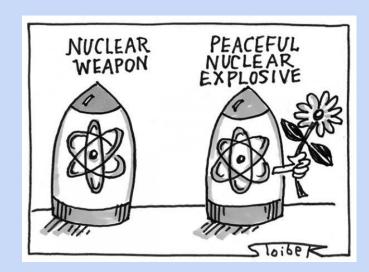


Image Courtesy of Carlton Stoiber

- Global Zero

WHAT I HAVE LEARNED...

- Able to recognise:
 - Current Events
 - Causes
 - Alternatives
- Inform w/h public safety
- Climate change
- Marine extinction
- Global famine
- What the government sees
- Science behind
- Nuclear ban possibility



Image Courtesy of Steve Greenberg

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