Best Insurance is many good copies of your files on other drives and DVDs stored in many secure places have duplicate in another safe place. Always use up to date anti malware, turn off computer when not using,

 Use a firewall, don't store sensitive data on HDD or don't use that machine on network or Internet.

 Can Linux help? Yes you can surf the Web without fear of viruses or spyware see pendrivelinux.com

 MALWARE viruses, spyware, worms, Trojan horses, time bombs, logic bombs, adware

 virus   a hostile program that may damage your files, software or computer

 worm   a program that actively self replicates itself without being opened

 Trojan Horse a program that poses as a good program but actually is a hostile virus

 anti-virus programs look for a virus signature (pattern)

 quarantine putting the virus in a place by itself where it is harmless

 spyware software allowing malicious monitoring or control of your computer

 logic bomb hostile program triggered by logical event such as employee fired or opening file # of times

 time bomb a hostile program that is triggered by a time Michaelangelo

 What is spybot? a free and good anti spyware program

adware is software that secretly spys on you & collects info for advertising purposes

 What is Ad-aware? an anti spyware and anti adware program

Hacker a person who wants to snoop in your computer

teenage hackers also called <u>script kiddies</u> use tools already created to wreak havoc.

cracker is a criminal hacker is hostile may be subverting systems and stealing your identity.
Countries and organizations do sponsor hackers to steal information this is called <u>espionage</u>. It is happening big time right now. Our country has lost much information to China and others in this way and because of poor and self serving leadership not doing their job to protect our country. Check it out yourself see if I am correct. Just take a look at congress actions and <u>boondogglers</u>.

Packet sniffer a computer program that looks at packets as they travel in a network to get your passwords and other information. Use a firewall and encryption to fight them.

firewall is hardware and software to stop unsafe traffic in and out of your computer

 bot an automated program. Some perform searches

 How to reduce spam? delete unknown emails, do not subscribe to offers

 Should computer always be on?   no save money, less wear, better security, fire safety.

 What does **Alt+F4** do? closes windows

 safeguards against information theft: do not give out sensitive info or save it on hard drives

What makes a better password? longer with numbers no common words. Saying letters wysiwyg

biometric identifier uses face recognition, voice, finger, retina, hand recognition. Another example showing up all over in public places are cameras. If a face scanner is hooked up to it it can scan hundreds of faces an hour and pass identity info on to whoever is running it. You will soon be video taped in public places. This would be great for catching wanted individuals, dissidents or protestors the government doesn't like. See the movie Enemy of the State. Cameras and listen devices are now so small they can easily be hidden almost anywhere. YOU <u>MUST must read 1984 by George Orwell</u>. If you don't have time read a summary of it.

 EULA User License Agreement you agree to by just opening a software package

 surge protector is an electronic device that renders surges harmless

UPS uninterruptable power supply protects from power surges, low voltages and outages has battery

Encryption making data unreadable except to intended recipient.   Why is Encryption important? It stops others from seeing your information. But government can break it. Privacy is dead.

How to make a **copy**. File, save as save to different drive or to a CD-R. Back up programs are good for businesses to use on regular basis but they are worthless if you change OS version. And you can't just pull out one file. You have to restore the whole drive. For individuals and students just a good copy is less work.

secure transactions are encrypted transactions. How do you recognize them? **https**

How to protect your privacy: don't give out your date of birth, social security number address phone and other correct personal information. Use an email without your name. Also make up a phony one with a different year and month and day and continually use that one. Use a phony name and address and keep using that. Make sure that it is to a vacant lot or property. Make up a phony set of data. phone number address. Look up your deceased relative on the Social Security Death Index and give out that social security number. If someone who is not entitled wants your social security number give then that one. No one is entitled to your social security number except You, IRS, your bank, your employer. No one else. Just give them the dead one. These numbers are not reused and raise a D (deceased) flag causing those who try to use it for credit cards to be caught. Same with drivers license number. Tell then no you will just take your business elsewhere.

information privacy The right to keep your personal information private.

electronic profiles   Information about you used by organizations to sell you things.

identity theft   The use of your personal information by someone else steal identity and your money

key logger a program that records your keystrokes often to obtain your passwords

phishing scam involving spoofed email and websites to acquire your personal information

pharming scam of hijacking web sites to steal personal information

port-scanning software looks for open ports where hackers can get into your computer

piracy   illegal copying & distribution of digital intellectual property

zombie a computer under remote control of a malicious program or hacker

botnet a large group of programs running autonomously on zombies.

forensics looking for evidence of illegal activities in equipment.

war driving cruising neighborhoods looking for open WiFi networks

Cookies little files placed on your computer by websites, some violate privacy, possible harmful

spam junk email

boot-sector virus replicates itself into a master boot record.

Script viruses hidden in form of scripts

macro viruses attaches itself to a document that uses macros

email virus Like Melissa uses the address book to distribute the virus.

Encryption virus encrypts our files making them useless to you and demands money to fix.

Polymorphic virus changes its own code to avoid detection

CAPTCHA completely automated public turing test to tell computers and humans apart. P 413

Free antivirus program try free.avg.com

Instant messaging is ripe for viruses especially if used on public computers.

Is your computer secure go to Grc.com Gibson Research for a free test. p422