

WINDOWS 10 / 11 CLASS – FIRST HANDOUT

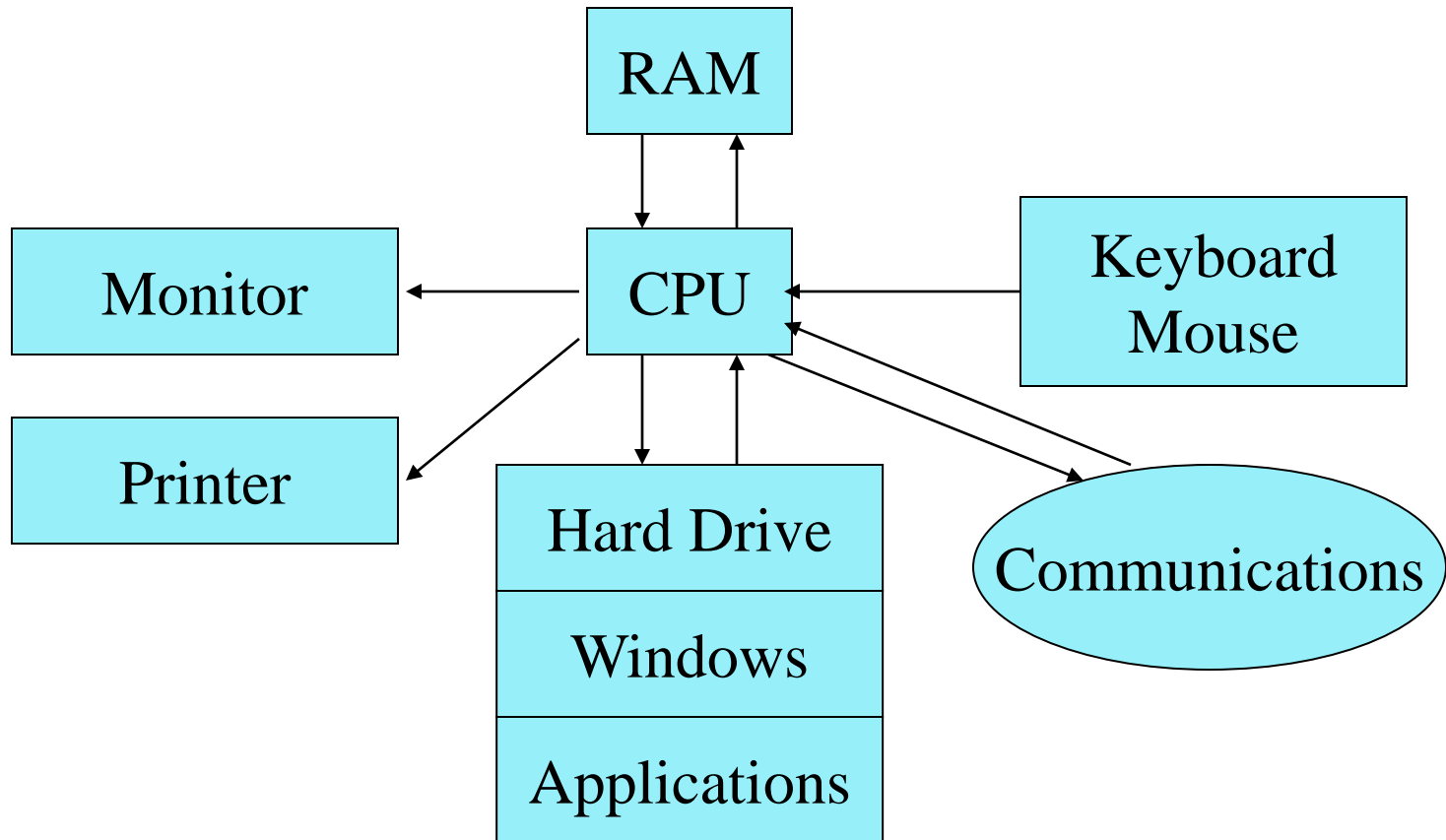
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WINDOWS 10 / 11 SCHEDULE

| Week | Chapter | Title | WIN 10 Pages | WIN 11 Pages |
|------|---------|---|-----------------------------------|-----------------------------------|
| 1 | 2, 3 | Getting Started | 24-27, 36, 42-43, 46, 62, 92, 124 | 24-26, 30, 38-39, 42, 58, 88, 120 |
| 2 | 2, 4 | Basic Control, Task View, Snap | 37-38, 90-91, 94-108, 119 | 31, 86-87, 90-102, 115 |
| 2 | 5 | Customizing the appearance of Windows 10 | 83, 110-115, 120 | 78, 104-111, 116 |
| 3 | 3 | Intro to Apps | 72-89, 170-178, 204-206 | 68-83, 166-174, 202-204 |
| 3 | 9 | Intro to Internet browsing, Microsoft Edge App | 182-188 | 178-185 |
| 4 | 10 | Mail App, People App, ?? | 196-199, 202-203 | 192-195, 200-201 |
| 5 | handout | Selecting - Copy, Cut, Paste | -- | -- |
| 6 | handout | Files / Folders | -- | -- |
| 6 | 6 | File Explorer | 126-144 | 122-140 |
| 7 | 7 | Creating folders, Selecting/Grouping, Copy/Move files, Rename, Delete | 146-162 | 142-158 |
| 8 | 8 | Working with photos and music from your desktop | 170-173 | 166-169 |
| 8 | 12 | Maintenance, Security, Backup | 220-227, 230-232 | 220-227, 230-232 |
| | | | | |
| | | | | |
| | | https://keithhering.org/classes/ | | |

PC DIAGRAM



Drive Capacities

1 bit = “0” or “1”

1 byte (8bits) = 8 bits (1 character)

1 kilobyte (KB) = 1024 bytes (2^{10})

1 megabyte (MB) = 1024 kilobytes (2^{20})

1 gigabyte (GB) = 1024 megabytes

1 terabyte (TB) = 1024 gigabytes

A Kilobyte is 1,024 Bytes

You would think that since the prefix “kilo” typically means 1,000, that kilobyte would have 1,000 bytes.

The reality is that since computers store data using the binary system, and the binary system is based on powers of 2, the actual number of bytes is 1,024.

You can see this when you look at how the power of 2's works:

$$\begin{array}{l} 2^0 = 1 \quad 2^1 = 2 \quad 2^2 = 4 \quad 2^3 = 8 \quad 2^4 = 16 \quad 2^5 = 32 \quad 2^6 = 64 \\ 2^7 = 128 \quad 2^8 = 256 \quad 2^9 = 512 \quad 2^{10} = 1024 \end{array}$$

The first binary value that represents 1,000 bytes is 1,024. Therefore, a kilobyte contains 1,024 bytes.

ORIGINAL IBM PC



HISTORY OF THE IBM PC

| DATE | EVENT | SALES PRICE | IN TODAY'S DOLLARS |
|--------------|--|-------------------|--------------------|
| August 1981 | IBM releases IBM Personal Computer - IBM PC | \$1,565 | \$4,455 |
| | Operating System is PC DOS by Microsoft - Bill Gates and Paul Allen | | |
| | | | |
| June 1982 | First IBM PC Clone released - MPC 1600 - Columbia Data Products | | |
| January 1983 | Compaq Portable | | |
| 1984 | Compaq Deskpro | | |
| 1984 | Michael Dell begins selling IBM PC upgrades and computers directly to customers | | |
| Nov. 1985 | Microsoft Windows is launched to compete with Apple's Macintosh GUI | | |
| 1985 | Dell produces first computer of its own design, the Turbo PC (IBM PC Clone) | \$795 | \$2,263 |
| 2005 | IBM sells it's Personal Computer division to Lenovo | | |
| 1996 | Dell.com website launches - 7 months later, selling \$1 million of computers per day | | |
| 1999 | Dell is ranked number 1 in PC Sales | | |
| 2005 | IBM sells it's Personal Computer division to Lenovo | | |
| | | | |
| | TOP 6 PC MANUFACTURERS | | |
| | | | |
| RANK | MANUFACTURER | 2020 MARKET SHARE | |
| 1 | Lenovo | 24.99% | |
| 2 | HP | 21.20% | |
| 3 | Dell | 16.40% | |
| 4 | Apple | 8.20% | |
| 5 | Asus | 6.00% | |
| 6 | Acer | 5.90% | |
| | Others | 17.40% | |

NUMBER OF WEBSITES

| Year | Websites | Internet Users | Websites launched | |
|-----------|---------------|------------------------|----------------------|--|
| 2018 | 1,630,322,579 | | | |
| 2017 | 1,766,926,408 | | | |
| 2016 | 1,045,534,808 | | | |
| 2015 | 863,105,652 | 3,185,996,155 | | |
| 2014 | 968,882,453 | 2,925,249,355 | | |
| 2013 | 672,985,183 | 2,756,198,420 | | |
| 2012 | 697,089,489 | 2,518,453,530 | | |
| 2011 | 346,004,403 | 2,282,955,130 | | |
| 2010 | 206,956,723 | 2,045,865,660 | Pinterest, Instagram | |
| 2009 | 238,027,855 | 1,766,206,240 | | |
| 2008 | 172,338,726 | 1,571,601,630 | Dropbox | |
| 2007 | 121,892,559 | 1,373,327,790 | Tumblr | |
| 2006 | 85,507,314 | 1,160,335,280 | Twtrr | |
| 2005 | 64,780,617 | 1,027,580,990 | YouTube, Reddit | |
| 2004 | 51,611,646 | 910,060,180 | Thefacebook, Flickr | |
| 2003 | 40,912,332 | 778,555,680 | WordPress, LinkedIn | |
| 2002 | 38,760,373 | 662,663,600 | | |
| 2001 | 29,254,370 | 500,609,240 | Wikipedia | |
| 2000 | 17,087,182 | 413,425,190 | Baidu | |
| 1999 | 3,177,453 | 280,866,670 | PayPal | |
| 1998 | 2,410,067 | 188,023,930 | Google | |
| 1997 | 1,117,255 | 120,758,310 | Yandex, Netflix | |
| 1996 | 257,601 | 77,433,860 | | |
| 1995 | 23,500 | 44,838,900 | Altavista, Amazon | |
| 1994 | 2,738 | 25,454,590 | Yahoo | |
| 1993 | 130 | 14,161,570 | | |
| 1992 | 10 | | | |
| Aug. 1991 | 1 | World Wide Web Project | | |

HISTORY OF MAJOR WEB BROWSERS

1995 – Netscape Navigator and Microsoft Internet Explorer

1996 – Netscape has 86% of market – Microsoft integrates Explorer in Windows Operating system

1996 - Opera is released

1998 - Netscape purchased by America Online

1999 – Internet Explorer has 99% of market – Netscape open sources its product creating Mozilla

2002 – Mozilla releases Firefox

2003 – Apple Safari released

2004 - Internet Explorer has 92% of market

2008 – Google Chrome released

2013 - Internet Explorer has 11.8% of market

2015 - Windows 10 release – Microsoft Edge is default browser, Samsung Internet released

Web Browser Market Share – September 2020

| | |
|------------------|-------|
| Google Chrome | 66.3% |
| Apple Safari | 16.8% |
| Mozilla Firefox | 4.1% |
| Samsung Internet | 3.2% |
| Microsoft Edge | 2.6% |
| Opera | 2.1% |

HISTORY OF SEARCH ENGINES

1994 – infoseek

Yahoo! Search

WebCrawler

Lycos

1995 – LookSmart

Excite

AltaVista

AOL buys WebCrawler

Netscape begins using Infoseek as default search

1996 – BackRub – beginning of Google

HotBot

AskJeeves – Ask.com

1997 – Excite buys out WebCrawler

1998 – MSN Search

Google launches

1999 – AOL selects Google as a search partner

2008 - DuckDuckGo

2009 – Bing – Microsoft rebrands MSN Search

2011 - Baidu

2014 – Firefox selects Yahoo Search as default search

2015 – Bing is default search in Microsoft Edge

2019 - Yandex

Search Engine Market – September 2020

| | |
|--------|-------|
| Google | 92.3% |
|--------|-------|

| | |
|------|------|
| Bing | 2.8% |
|------|------|

| | |
|--------|------|
| Yahoo! | 1.6% |
|--------|------|

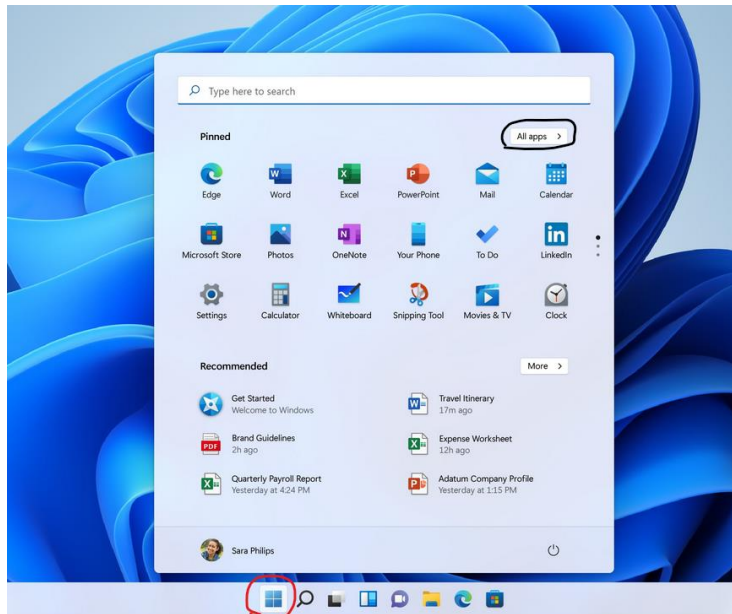
| | |
|-------|------|
| Baidu | 1.1% |
|-------|------|

| | |
|------------|------|
| DuckDuckGo | 0.5% |
|------------|------|

| | |
|--------|------|
| Yandex | 0.5% |
|--------|------|

WINDOWS 11 VS. WINDOWS 10

WINDOWS 11



START BUTTON (circled in red) –

Positioned at middle of Task Bar

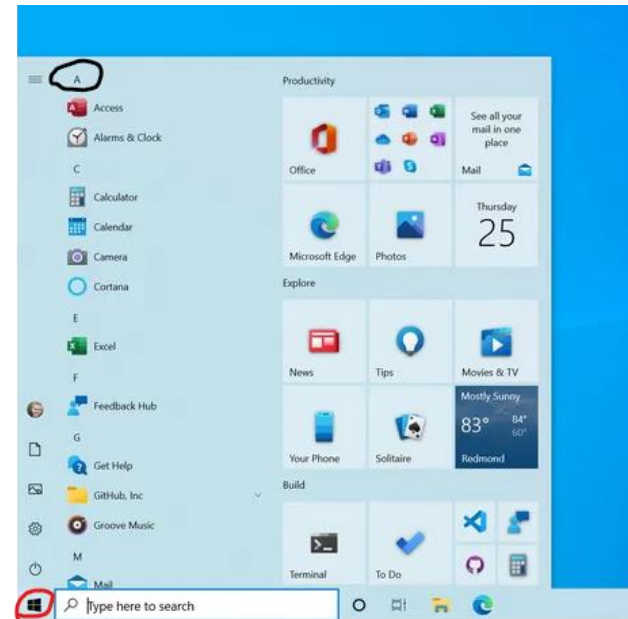
Left Click will display Start Menu

START MENU

Display has 5 horizontal sections:

1. Search box
2. All Apps link (circled in black)
3. Pinned programs
4. Recommended programs
5. Important links

WINDOWS 10



START BUTTON (circled in red) –

Positioned at left end of Task Bar

Left Click will display Start Menu

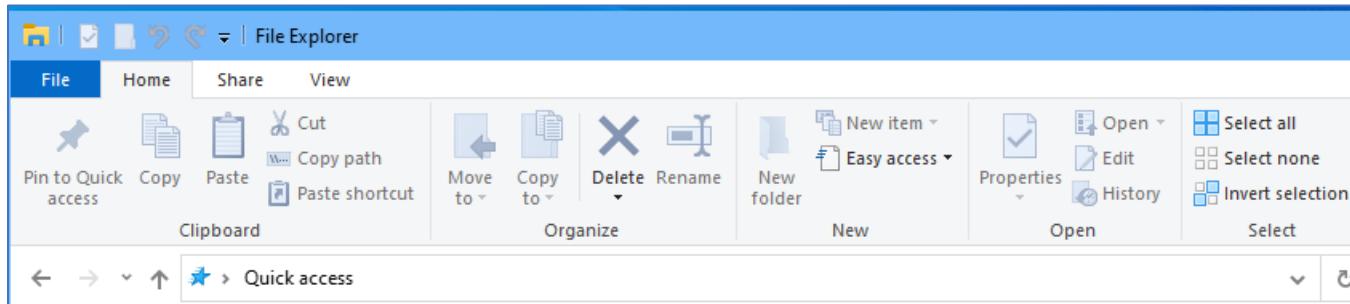
START MENU

Display has 3 vertical sections:

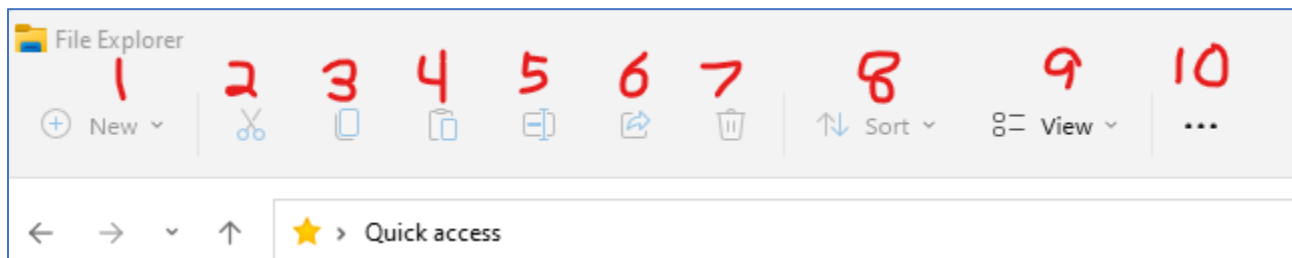
1. Right pane - List of "Tiles" which are icons used to open programs
2. Middle pane - List of "All Apps (Programs)"
3. Left pane – List of important links

WINDOWS 11 VS. WINDOWS 10

FILE EXPLORER – WINDOWS 10



FILE EXPLORER – WINDOWS 11



1 – Create a New Item – only on FOLDER SELECTION

2 - Cut

3 - Copy

4 - Paste

5 - Rename

6 - Share

7 - Delete

8 - Sort

9 - View

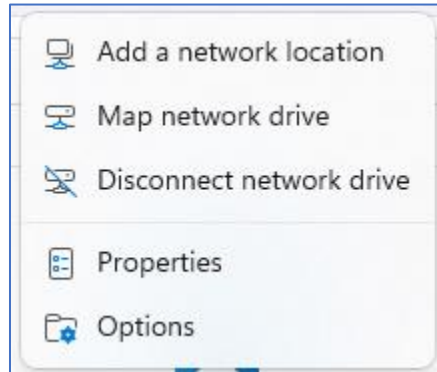
10 – See More – varies by SELECTION

WINDOWS 11 VS. WINDOWS 10

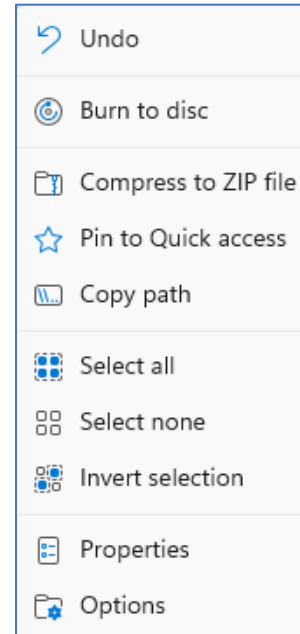
WINDOWS 11

File Explorer -
... "See More"

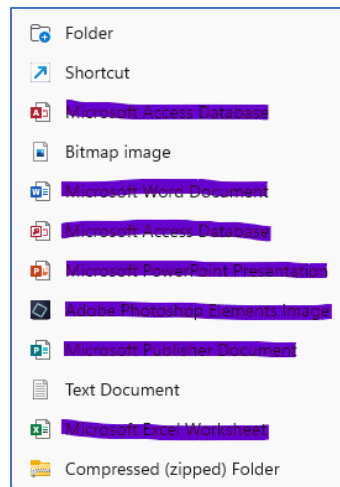
This PC Selection



Folder Selection



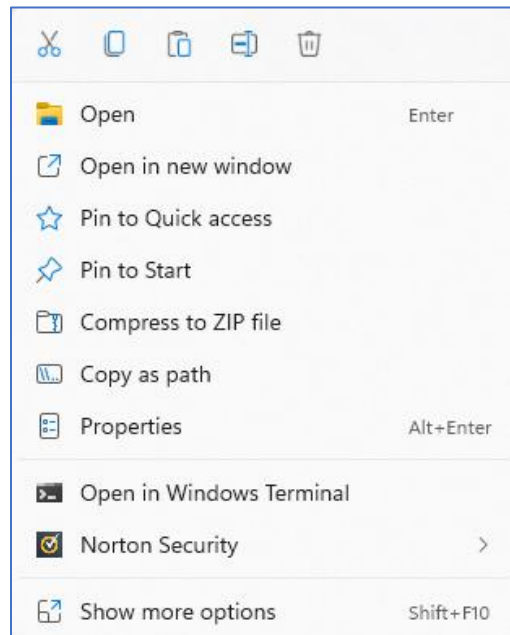
File Explorer – New



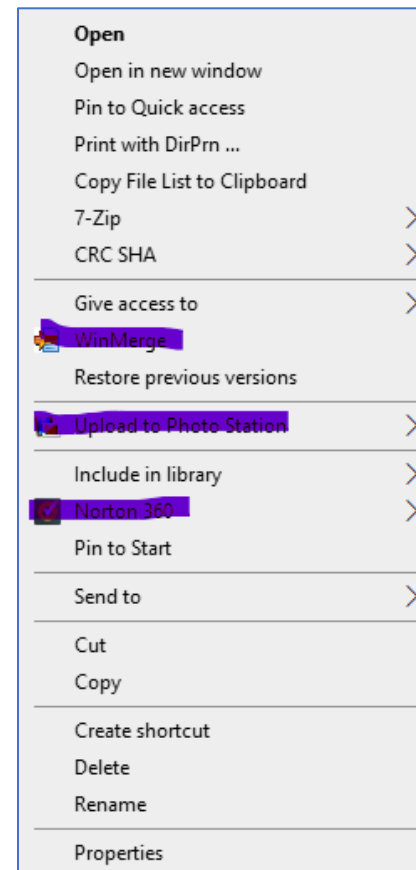
WINDOWS 11 VS. WINDOWS 10

File Explorer pop-up window after Right Click on file or folder

Windows 11



Windows 10



2023 PC SECURITY PACKAGE RANKINGS

| Toms Guide | techradar | PC Mag |
|---------------------------------------|--|---------------------------------|
| 1 Norton 360 Deluxe | 1 Bitdefender Total Security | 1 Norton 360 Deluxe |
| 2 Bitdefender Premium Security | 2 Norton 360 Deluxe | 2 Bitdefender Internet Security |
| 3 3. McAfee Total Protection Ultimate | 3 Avast One | 3 Avast One Platinum |
| 4 Trend Micro Premium Security Suite | 4 Trend Micro Maximum Security | 4 McAfee+ |
| 5 ESET Smart Security Premium | 5 McAfee Total Protection Multi-Device | 5 Trend Micro Maximum Security |
| 6 Kaspersky Total Security | 6 BullGuard Premium Protection | 6 Avira Prime |
| | 7 Antivirus Prime | 7 ESET Internet Security |
| | 8 ESET Smart Security Premium | 8 F-Secure Total |
| | 9 Webroot Internet Security Plus | |

| | |
|-------------------|---|
| Toms Guide | https://www.tomsguide.com/best-picks/best-internet-security-suites |
| techradar | https://www.techradar.com/news/best-internet-security-suites |
| PC Mag | https://www.pcmag.com/picks/the-best-security-suites |

Techradar Editors note: Kaspersky Total Security Anti-Virus used to appear on this list. Considering the current climate however, we've taken the decision to remove the provider. Although much of the company's core processes are now take place in Switzerland, the fact that its headquarters remain in Moscow and there have been previous allegations around government coercion, it feels prudent to use the provider with caution. And, when there are so many other excellent providers to choose from, it's impossible to whole-heartedly recommend Kaspersky at this time.

WINDOWS 10 APPS LIST

| WINDOWS 11 APP | DESCRIPTION |
|--------------------------|---|
| Calculator | calculator, converter |
| Calendar | appointments and dates |
| Camera | use to take pictures if computer has built in camera |
| Clock | alarm, world clock, timer, stopwatch |
| Get Help | windows help digital assistant |
| Get Started | |
| Groove Music | play music, online music purchases |
| Mail | online Mail facility – add your accounts |
| Maps | access to online maps (similar to Google Maps) |
| Media Player | play music and videos |
| Microsoft Edge | internet browser (replaces Internet Explorer) |
| Microsoft Store | access Windows Store |
| Movies and TV | play videos, online movie purchases |
| News | real-time news |
| OneDrive | Microsoft online "Cloud" file storage - needs Microsoft account |
| Paint | drawing program |
| Phone Link | access photos, messages, apps, calls |
| Photos | view, edit, and organize your photos |
| Settings | all Windows 10 settings |
| Snip & Sketch | snap shot of part of screen |
| Solitaire & Casual Games | solitaire games |
| Sound Recorder | |
| Sticky Notes | notes on the desktop |
| Tips | Windows 10 tips in categories |
| Weather | real-time weather forecasts |
| Windows Security | default Windows 10 security |