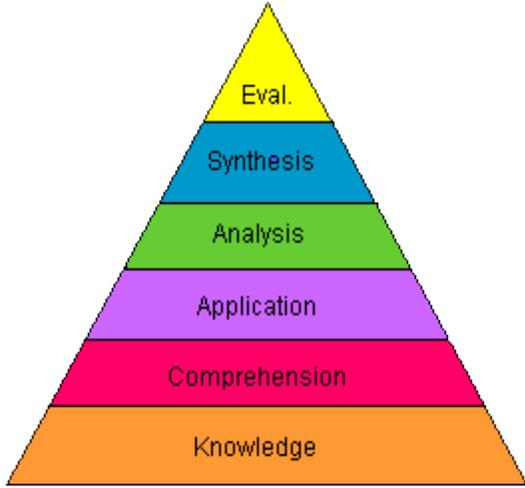
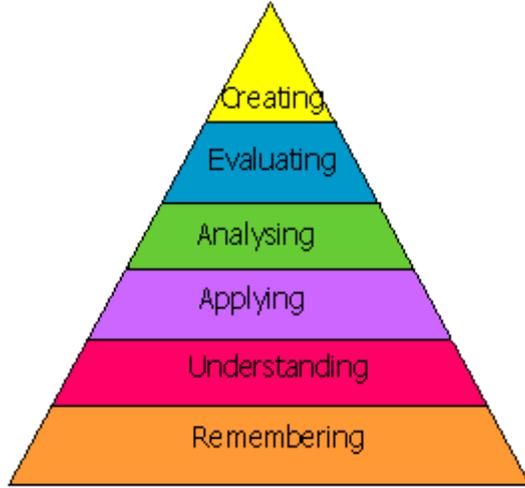


Bloom's Revised Taxonomy

Traditional Taxonomy		Revised Taxonomy
	<p>In 1956, Benjamin Bloom headed a group of educational psychologists who developed a classification of levels of intellectual behavior important in learning. During the 1990's a new group of cognitive psychologist, lead by Lorin Anderson (a former student of Bloom's), updated the taxonomy reflecting relevance to 21st century work. The graphic is a representation of the NEW verbiage associated with the long familiar Bloom's Taxonomy. Note the change from Nouns to Verbs to describe the different levels of the taxonomy.</p> <p><i>Note that the top two levels are essentially exchanged from the Old to the New version.</i></p>	
<p>Remembering: can the student recall or remember the information?</p>	<p>define, duplicate, list, memorize, recall, repeat, reproduce, state, recognizing, listing, describing, identifying, retrieving, naming, locating, finding, bullet pointing, highlighting, bookmarking, social networking, social bookmarking, favoriting/local bookmarking, searching & googling.</p>	
<p>Understanding: can the student explain ideas or concepts?</p>	<p>classify, describe, discuss, explain, identify, locate, recognize, report, select, translate, paraphrase, interpreting, summarizing, inferring, paraphrasing, classifying, comparing, explaining, exemplifying, advanced searches, Boolean searches, blog journaling, twittering, categorizing, tagging, commenting, annotating & subscribing.</p>	
<p>Applying: can the student use the information in a new way?</p>	<p>choose, demonstrate, dramatize, employ, illustrate, interpret, operate, schedule, sketch, solve, use, write, implementing, carrying out, using, executing, running, loading, playing, operating, hacking, uploading, sharing & editing.</p>	
<p>Analyzing: can the student distinguish between the different parts?</p>	<p>appraise, compare, contrast, criticize, differentiate, discriminate, distinguish, examine, experiment, question, test, comparing, organizing, deconstructing, attributing, outlining, finding, structuring, integrating, mashing, linking, validating, reverse engineering & cracking.</p>	
<p>Evaluating: can the student justify a stand or decision?</p>	<p>appraise, argue, defend, judge, select, support, value, evaluate, checking, hypothesizing, critiquing, experimenting, judging, testing, detecting, monitoring, blog commenting/critiquing, reviewing, posting, moderating, collaborating, networking, refactoring & testing.</p>	
<p>Creating: can the student create new product or point of view?</p>	<p>assemble, construct, create, design, develop, formulate, write., designing, constructing, planning, producing, inventing, devising, making, programming, filming, animating, blogging video blogging, mixing, re-mixing, wiki-ing, publishing, video casting, podcasting, directing & broadcasting</p>	

Bloom's Revised Taxonomy

Taxonomy Element	Keywords & Actions	Digital Approaches
<p>Higher Order to Lower Order Thinking</p>	<p>Items in Italics are part of Bloom's Digital Taxonomy</p>	<p>Key: WP-Word Processing; DTP-Desktop Publishing; GIS-Geographic Info. Systems</p>
<p>Creating</p> <p><i>Generating/creating new ideas, products, or ways of viewing things (Putting together/combining ideas, concepts or elements to develop/construct/build an original idea or engage/stimulate in creative thinking).</i></p> <p>Rubrics At create level -</p> <p> Publishing -podcasting rubric.pdf</p> <p> digital publishing rubric.pdf</p>	<p>Designing Constructing Planning Producing Inventing Devising Making Building programming, filming, animating, Blogging, Video blogging, mixing, remixing, wiki-ing, publishing, video casting, podcasting, directing/producing</p>	<p>Film (Movie maker, Avid Free DV, Pinnacle Studio, Adobe premiere elements Online tools [See web2.0] www.jumpcut.com, www.eyespot.com, www.pinnacleshare.com, www.cuts.com, www.animoto.com)</p> <p>Presentation (PowerPoint, Impress, Zoho presentation tool, Photo story, Google present)</p> <p>Story (WP, DTP, Presentation, podcasting, photo story, voice thread)</p> <p>Project (WP, Ganttproject for Gantt charts and PERT Charts, Openproj for gantt, Pert and critical pathways) calendars, flow charts [inspiration, freemind, C-Map , smartideas], mind maps)</p> <p>Blogging & video blogging (Creating original content in a blogging environment) - Blogging tool, blogger, wordpress, classroom blogmiester, bloglines</p> <p>Vodcast, podcast video casting screen casting - voice thread, blogging tool, skype</p> <p>Plan(Inspiration, <i>Cmap, free mind</i>, WP, Calendar)</p> <p>New game (<i>Gamemaker, RPGmaker</i>)</p> <p>Model (Sketchup, Blender, Maya3d PLE, autocad)</p> <p>Song (<i>finale notepad</i>, WP, Sound recorder, <i>Audacity</i>, podcasting, recording narration in presentations [<i>photo story 3</i>, PowerPoint, impress] Online tools [See web2.0] http://voicethread.com/ http://www.looplabs.com/ http://www.jamglue.com http://www.podomatic.com/mix)</p> <p>Media product (DTP, Movie maker, Corel, <i>GIMP, Paint.net, Tuxpaint, Alice</i>, Flash, Podcasting - Online tools [See web2.0] http://voicethread.com/ http://www.looplabs.com/ http://www.jamglue.com http://www.podomatic.com/mix)</p> <p>Advertisement (DTP, Corel, <i>GIMP, Paint.net, Tuxpaint</i>, Movie maker, <i>Alice</i>, Flash, Podcasting)</p> <p>Painting (Corel, Paint, <i>GIMP, Paint.net, Tuxpaint</i> online tools - http://www.picnik.com http://www.ajaxwrite.com/)</p>
<p>Evaluating</p> <p>Justifying a decision, solution, answer or course of action (Judge/evaluate/analyze the value of ideas, concepts, materials and methods by developing/constructing and applying standards and criteria).</p> <p>Rubrics at Evaluating level -</p>	<p>Checking Hypothesizing Critiquing Experimenting Judging Testing Detecting Monitoring (Blog/vlog) commenting, reviewing, posting, moderating, collaborating, networking, reflecting, (Alpha & beta) testing.</p>	<p>Debate (WP, sound recorder, podcasting, inspiration, free mind, Chat rooms, IM, email, Discussion boards, video and Phone conferencing [skype, IM])</p> <p>Panel (WP, chat rooms, IM, email, Discussion boards, Video and phone conferencing)</p> <p>Report (WP, DTP, Presentation, Camera)</p> <p>Evaluation (WP, DTP, Mind Map Presentation, camera, GIS[<i>Google earth, Google Maps, Flickr Arcview/explorer</i>])</p> <p>Investigation (Internet, Online tools, camera, WP, GIS[<i>Google earth, Google Maps, Flickr Arcview/explorer</i>])</p> <p>Verdict (WP etc)</p> <p>Conclusion (WP, DTP, Presentation)</p> <p>Persuasive speech (WP, Sound recorder, reasonable -argument software, Mind map - presentation mode)</p>

Bloom's Revised Taxonomy

 validating rubric.pdf  2 threaded discussion rubric.pdf		<p>Commenting, moderating reviewing posting - discussion boards, forums, blog, wiki's, twitter, threaded discussions, bulletin boards, chat rooms</p> <p>Collaborating: discussion boards, forums, blog, wiki's, twitter, threaded discussions, bulletin boards, chat rooms, video conferencing, chat rooms, instant messaging, txt and pxt messaging, video messaging audio conferencing</p> <p>Networking - social networking tools, audio and video conferencing, email threads, telecommunications, instant messaging etc</p>
<p>Analyzing</p> <p>Breaking information into parts/components to explore/develop/construct understandings and relationships (Breaking information down into its component elements). Rubrics at Analyzing level -</p>  data analysis rubric.pdf	<p>Comparing Organizing Deconstructing Attributing Outlining Structuring Integrating, Mashing, linking, reverse-engineering, cracking, mind-mapping, validating</p>	<p>Survey (Web, WP, Spreadsheet, surveymonkey email, discussion boards)</p> <p>Database (relational; databases using MySQL and Access, Flatfile database using Spreadsheet, wikis, GIS [<i>Google earth, Google Maps, Flickr, Arcview/explorer</i>])</p> <p>Abstract (WP)</p> <p>Relationship maps - Herring or fish bone mind maps, SWOT Analysis, PMI, Venn, 6 Questions [See Bloom's, Learning styles & thing organisers] (Inspiration, kidspiration, smart ideas, <i>Cmap</i>, Mindmapper, <i>freemind</i> Online tools - http://www.gliffy.com/ http://www.mindmeister.com http://www.drawanywhere.com/examples.aspx)</p> <p>Report (WP, DTP, spreadsheet, presentation, web, GIS [<i>Google earth, Google Maps, Flickr Arcview/explorer</i>])</p> <p>Graph (Spreadsheet, digitizer)</p> <p>Spreadsheet (Calc, excel)</p> <p>Checklist (WP, Spreadsheet)</p> <p>Mashing - intel mash up</p> <p>Chart (Spreadsheet, digitizer, mind mapping tools online tools - www.gliffy.com)</p>
<p>Applying</p> <p>Using information, concepts and ideas in another familiar situation (Using strategies, concepts, principles and theories in new situations). Rubrics at Applying level -</p>  wiki editing rubric v2.pdf  collaboration rubric.pdf	<p>Implementing Carrying out Using Executing Doing, running, loading, playing, operating, hacking, uploading, sharing, editing, Wiki editing</p>	<p>Illustration (Corel, inkscape, GIMP, Paint)</p> <p>Simulation (Floor map, graphic tools, <i>google sketchup</i>)</p> <p>Sculpture Demonstration (Presentation, graphics, screen capture)</p> <p>Presentation - impress, PowerPoint, google presentation, Zoho presentation</p> <p>Interview (WP, mind mapper, podcast, vodcast, <i>audacity</i>, sound recorder)</p> <p>Performance (Podcast, vodcast, film, audio recording, speech, PowerPoint Show)</p> <p>editing - video and sound tools</p> <p>playing - mmorpg's online games, simulations like Global conflicts palenstine</p>
<p>Understanding</p>	<p>Interpreting Exemplifying Summarizing Inferring</p>	<p>Recitation (WP, Mind map, flashcards, presentation tools)</p> <p>Summary (WP, Mind map, internet, wiki)</p>

Bloom's Revised Taxonomy

<p>Explaining/defining ideas or concepts (Understanding of given information). Rubrics at Understanding level</p> <p>-  2 threaded discussion rubric.pdf</p> <p> blogging rubric v2.pdf</p> <p> advanced search rubric.pdf</p> <p> search rubric.pdf</p>	<p>Paraphrasing Classifying Comparing Explaining, <i>Advanced searches,</i> <i>Boolean searches, blog journaling, twittering, categorizing and tagging, commenting, annotating, subscribing</i></p>	<p>Collection (WP, Mind map, internet) Explanation (WP, Mind map, internet) Show and tell (WP, presentation, graphics, audio tools - <i>audacity</i> sound recorder, video tools, Mind map) Example (WP, Mind map, internet, DTP) List (WP, Mind map) Label (WP, Mind map, Graphics, online tools - ajaxdraw) Outline (WP, Mind map) Advanced and Boolean searches - advanced search features - google etc Blog journaling - bloglines, blogger etc Diary/Journal (blogging, Myspaces, bebo, facebook, bloglines, blogger) Categorizing and tagging - Del.icio.us etc tagging, comments annotating - -notice boards, discussion boards, treaded discussions, adobe acrobat reader, blog readers, Firefox, zotero Subscribing - aggregators - bloglines, Firefox extensions</p>
<p>Remembering</p> <p>Recalling specific information (Recall or recognition of specific information). Rubrics at Remembering level</p> <p>-  bookmarking rubric.pdf</p>	<p>Recognizing Listing Describing Identifying Retrieving Naming Locating/Finding, <i>Bullet pointing, highlighting, bookmarking, social networking, Social bookmarking, favoriting/local bookmarking, Searching, googling,</i></p>	<p>Quiz/Test (Online tools, WP, Cue sheets) Flashcards (<i>Moodle, Hot potatoes, scorm objects</i>) Definition (WP, simple Mind maps, wiki) Fact (WP, Mind map, internet, discussion boards, email) Worksheet/book (WP, Mind map, Web) Label (WP, graphics tools) List (WP, Mind map, Web publishing) Reproduction (WP, internet, graphics tools, Chat rooms, email, discussion boards) Bookmarking internet browsers, web 2.0 tools del.icio.us Social Networking - facebook, myspaces, bebo Basic Searches - search engines google</p>