

Using Web 2.0 Tools in the K-12 Classroom

BEVERLEY E. CRANE

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Don't miss the companion Web site that accompanies this book
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Dedication

For my family, with love—
My parents who stressed the importance of education;
My husband who instilled the need for education
in our sons Michael, Mark, Kenneth, and Scott;
and, as fathers, our sons who continue to emphasize the value of education
with our grandchildren.

Table of Contents

List of Figures and Tables	xi
Preface	xv
Acknowledgments	xvii
Chapter 1. A New Information Revolution	1
<hr/>	
Part 1: Ideas and Insights	1
Trends for the Twenty-First Century	2
Objectives of This Chapter	3
Glossary	3
Becoming an Information-Literate Person in the Twenty-First Century	3
Part 2: Getting Started—Teaching Strategies and Web 2.0 Tools	4
Web 2.0 Tools	5
Web 2.0 Tools Covered in This Book	5
Teaching and Learning Strategies	5
Critical Thinking Defined	5
Collaborative/Cooperative Learning	6
Project-Based Learning	7
Inquiry-Based Learning with Essential Questions	7
Other Issues	8
Copyright: Creative Commons	8
Acceptable Use Policies (AUPs)	8
Part 3: Practical Applications	9
The Unit Plan	9
Step 1: Applying Framework Standards—What Should Be Taught?	9
Step 2: Designing Unit Goals and Creating Specific Lesson Objectives	10
Step 3: Deciding on Materials and Resources	10
Step 4: Planning the Instruction	10
Step 5: Preparing for Teacher and Student-Based Assessment	11
Summary	12
Conclusion	12
References and Further Reading	13
Chapter 2. Blogging in the Language Arts	15
<hr/>	
Part 1: Ideas and Insights	15
Objectives of This Chapter	15
Glossary	16

Introduction	16
What Are Blogs?	17
Characteristics of Blogs	18
Blog Components	18
Implications for Education	20
Why Use Blogs in the Classroom?	20
Examples of Blogs in the Library and Classroom	20
Example 1: Blogs in Literature	21
Example 2: Blogs in Writing	22
Teacher Exercises: Now You Try It . . .	22
Part 2: Getting Started	23
Considerations Before Setting Up a Blog	23
Step 1: Choose a Service	23
Step 2: Select an Aggregator	23
Step 3: Set Up Your Blog	25
Blogging Guidelines	25
Rules for Writing Your Blog	29
Part 3: Practical Applications	29
Unit Plan for Secondary English/Language Arts	29
I-Search Project	30
Step 1: Apply Framework Standards—What Should Be Taught?	30
Step 2: Identify General Goals and Specific Objectives	31
Step 3: Gather Materials	31
Step 4: Introduce the Unit	31
Step 5: Create Sample Activities	33
Step 6: Evaluate What Was Learned	35
Summary	35
Teacher Exercises: Now You Try It . . .	36
Conclusion	37
References and Further Reading	37

Chapter 3. Experiencing History Through Podcasts **39**

Part 1: Ideas and Insights	39
Objectives of This Chapter	39
Glossary	40
Introduction	40
What Is a Podcast?	41
Why Use Podcasting?	41
Classroom Podcast Examples	41
Example 1: Kidcast in the Classroom	42
Example 2: ColeyCasts	42
Example 3: Coulee Kids	42
Part 2: Getting Started	44
Steps to Create a Podcast	44
Step 1: Select Your Equipment	44
Step 2: Plan for Recording	46

Step 3: Record the Podcast	46
Step 4: Postprocess the Recording	46
Step 5: Upload the Podcast	47
Step 6: Publish the Podcast	47
Teacher Exercises: Now You Try It . . .	48
Part 3: Practical Applications	48
Unit Plan for Social Studies on Immigration	48
Step 1: Apply Framework Standards—What Should Be Taught?	49
Step 2: Identify General Goals and Specific Objectives	50
Step 3: Gather Materials	51
Step 4: Create Sample Activities	52
Step 5: Evaluate What Was Learned	56
Summary	56
Teacher Exercises: Now You Try It . . .	56
Conclusion	59
References and Further Reading	60
Chapter 4. Creating Literature Wikis in the Classroom	61
<hr/>	
Part 1: Ideas and Insights	61
Objectives of This Chapter	61
Glossary	62
Introduction	62
What Is a Wiki?	62
Criteria for Selecting a Wiki	63
Why Use Wikis in the Classroom?	64
Classroom Examples of Wikis	64
Example 1: Flat Classroom Project	64
Example 2: Villagewiki for Social Studies	65
Example 3: Wikis in Different Subject Areas	67
Part 2: Getting Started	68
Preparing for a Wiki	68
Step 1: Keep the Administration Informed	68
Step 2: Make Basic Decisions about Setting Up the Wiki	68
Step 3: Choose a Host Using Specific Criteria	68
Step 4: Select the Wiki Host That Meets the Criteria	70
Step 5: Decide How to Use the Wiki	71
Setting Up a Wiki	72
Teacher Exercises: Now You Try It . . .	74
Part 3: Practical Applications	74
Multidisciplinary Unit Plan for English Literature	75
Step 1: Apply Framework Standards—What Should Be Taught?	75
Step 2: Identify General Goals and Specific Objectives	75
Step 3: Gather Materials	76
Step 4: Create Sample Activities	76
Step 5: Evaluate What Was Learned	80
Summary	82

Teacher Exercises: Now You Try It . . .	82
Conclusion	82
References and Further Reading	83
Chapter 5. Digital Storytelling: Cross-Curricular Connections	85
Part 1: Ideas and Insights	85
Objectives of This Chapter	85
Glossary	85
What Is Digital Storytelling?	86
Story Elements	86
Story Types	88
Examples of Digital Storytelling in the Classroom	88
Example 1: Study of Heroes	88
Example 2: The Power of One	89
Example 3: Walled Lake School District Digital Stories	89
Example 4: Elementary Grade Stories	90
Example 5: KQED Digital Storytelling Initiative	91
Part 2: Getting Started	91
Preproduction	92
Step 1: Draw Upon Prior Knowledge	92
Step 2: Start with an Idea	92
Step 3: Gather Resources	93
Step 4: Create a Storyboard	93
Step 5: Organize the Resources	94
Production	94
Step 6: Practice the Delivery of the Voiceover	94
Step 7: Use the Tools	95
Postproduction	95
Step 8: Putting It All Together	95
Teacher Exercises: Now You Try It . . .	95
Part 3: Practical Applications	97
Unit Plan for Science on Energy Sources and Conservation	97
Step 1: Apply Framework Standards—What Should Be Taught?	97
Step 2: Identifying General Goals and Specific Objectives	98
Step 3 Gather Materials	99
Step 4: Create Sample Activities	99
Step 5: Evaluate What Was Learned	105
Summary	106
Teacher Exercises: Now You Try It . . .	108
Conclusion	108
References and Further Reading	108
Chapter 6. Google in the Classroom—More Than Just Research	109
Part 1: Ideas and Insights	109
Objectives of This Chapter	109

Glossary	110
Introduction	110
What Are Google Tools?	111
Why Use Google Tools in the Classroom?	114
Examples of Google Tools for the Classroom	115
Example 1: Social Studies and Google Earth	115
Example 2: Google Earth in English Literature	115
Example 3: Google Groups in the Writing Class	116
Teacher Exercises: Now You Try It . . .	116
Part 2: Getting Started	117
Starting with Each Tool	117
Getting Started with Google Apps	118
Part 3: Practical Applications	119
Unit Plan Using Google Tools in a WebQuest for Social Studies	119
Step 1: Apply Framework Standards—What Should Be Taught?	120
Step 2: Identify General Goals and Specific Objectives	120
Step 3: Introduce the WebQuest	121
Step 4: Create Sample Activities	122
Step 5: Evaluate What Was Learned	126
Summary	126
Teacher Exercises: Now You Try It...	127
Conclusion	128
References and Further Reading	129

Chapter 7. Enhancing English Language Learning with Web 2.0 Tools 131

Part 1: Ideas and Insights	131
Objectives of This Chapter	132
Glossary	132
Introduction	132
Attaining Competence in a Second Language	133
Why Use Web 2.0 Tools with ELL Students?	134
What Is VoiceThread?	134
Examples of VoiceThreads in the Classroom	135
Example 1: Brazilian Project	135
Example 2: Jose, the Bear, Travels to Egypt	137
Example 3: Uses of VoiceThread in a Primary Language Class	137
Part 2: Getting Started	138
VoiceThread Features	138
Signing Up	140
Teacher Exercises: Now You Try It . . .	141
Part 3: Practical Applications	141
Cross-Curricular Unit Plan for ESL Students	142
Step 1: Apply Framework Standards—What Should Be Taught?	142
Step 2: Identify General Goals and Specific Objectives	143
Step 3: Gather Materials	143
Step 4: Create Sample Activities	144

Step 5: Evaluate What Was Learned	148
Summary	148
Teacher Exercises: Now You Try It . . .	148
Conclusion	149
References and Further Reading	150
Chapter 8. Social Bookmarking and Putting It All Together	151
<hr/>	
Part 1: Ideas and Insights	151
Objectives of This Chapter	151
Glossary	152
What Is Social Bookmarking?	152
Why Use Social Bookmarking?	152
Classroom Social Bookmarking Examples	153
Example 1: Fifth Grade Class Bookmarks	153
Example 2: Recording Radio Scripts	153
Example 3: Reviewing for Quizzes	153
Part 2: Getting Started	154
Social Bookmarking Sites	154
Creating Social Bookmarks	155
Step 1: Sign Up for a Free Account	156
Step 2: Log In to Your Account to Become Familiar with the Site	158
Step 3: Bookmark a Site	158
Step 4: Organize Your Bookmarks	158
Teacher Exercises: Now You Try It . . .	159
Part 3: Practical Applications	160
Cross-Curricular Unit Plan on the Environment	160
Step 1: Apply Framework Standards—What Should Be Taught?	160
Step 2: Identify General Goals and Specific Objectives	160
Step 3: Gather Materials	161
Step 4: Create Sample Activities	161
Step 5: Evaluate What Was Learned	166
Summary	167
Teacher Exercises: Now You Try It . . .	168
Conclusion	169
References and Further Reading	170
Appendix A. List of URLs by Chapter	171
Appendix B. Bev’s Web Site and Blog	181
Index	185
About the Author	189

List of Figures and Tables

FIGURES

Figure 1-1	Bloom's Taxonomy Revised	6
Figure 2-1	Components of a Blog	18
Figure 2-2	Tagging	19
Figure 2-3	<i>The Secret Life of Bees</i>	21
Figure 2-4	Google Reader™ Aggregator	24
Figure 2-5	RSS via Google Reader™	25
Figure 2-6	Create an Account	26
Figure 2-7	Name the Blog	26
Figure 2-8	Choose a Template	27
Figure 2-9	Start Your Posts	27
Figure 2-10	Blogging Contract	28
Figure 2-11	Student Progress Report	34
Figure 2-12	Research Evaluation Checklist	36
Figure 3-1	Kidcast	42
Figure 3-2	ColeyCasts	43
Figure 3-3	Coulee Kids' Podcasts	43
Figure 3-4	Audacity	45
Figure 3-5	Feedburner	45
Figure 3-6	Postprocessing	47
Figure 3-7	Questions About Primary Sources	52
Figure 3-8	Immigrant Cluster	53
Figure 3-9	Oral Interview Guide Sheet	54
Figure 3-10	Podcast Rubric	57
Figure 3-11	Self-Reflection Checklist	59
Figure 4-1	Wikipedia Home Page	63
Figure 4-2	Flat Classroom Project Home Page	65
Figure 4-3	Flat Classroom Project Students Speak Out	66
Figure 4-4	Grade 1 Wikis at Village Elementary School	66
Figure 4-5	Collaborative Storytelling	67
Figure 4-6	Wiki Sample Contract	69
Figure 4-7	Wiki Comparison	70
Figure 4-8	Name and Describe the Wiki	72
Figure 4-9	Select a Wiki Style	72
Figure 4-10	Create a Wetpaint Account	73

Figure 4-11	Invite Participants	73
Figure 4-12	Character Analysis Log	77
Figure 4-13	Character Trait Map	79
Figure 4-14	Wiki Rubric	80
Figure 4-15	Group Participation Rubric	81
Figure 4-16	Wiki Self-Evaluation Checklist	81
Figure 5-1	General Story Outline	87
Figure 5-2	Scott County Digital Stories	89
Figure 5-3	The Power of One	90
Figure 5-4	Walled Lake Digital Stories	90
Figure 5-5	Village Elementary School Stories	91
Figure 5-6	Video Production for Kids	92
Figure 5-7	Story Prompts	93
Figure 5-8	Storyboard	94
Figure 5-9	Components of a Digital Story	100
Figure 5-10	K/W/L Chart	100
Figure 5-11	Energy Sources Worksheet	101
Figure 5-12	PlanetPals	101
Figure 5-13	The Energy Story	103
Figure 5-14	Willowdale Elementary School Energy Podcast	103
Figure 5-15	Roofus' House	104
Figure 5-16	Digital Story Evaluation Rubric	106
Figure 5-17	Rubric for Energy Sources Podcast	107
Figure 5-18	Rubric on Conserving Energy Project	107
Figure 6-1	Google Docs™—Spreadsheets	111
Figure 6-2	Google News Alerts™	112
Figure 6-3	Google Notebook™	113
Figure 6-4	Google Earth™	114
Figure 6-5	Google Sites™	115
Figure 6-6	Sir Francis Drake's Circumnavigation of the Globe	116
Figure 6-7	Google LitTrips	117
Figure 6-8	Google Apps™	119
Figure 6-9	Google Maps™	123
Figure 6-10	Cuban Flora and Fauna	124
Figure 6-11	Cuban Embargo Timeline	125
Figure 6-12	Google Cuban News	125
Figure 6-13	Evaluation Rubric	127
Figure 7-1	What Is an Educational VoiceThread?	135
Figure 7-2	Brazilian VoiceThread Project	136
Figure 7-3	California Class VoiceThread	136
Figure 7-4	Jose, the Bear, Egypt Trip	137
Figure 7-5	English Language Teaching in Europe	138
Figure 7-6	VoiceThread Identities	139
Figure 7-7	VoiceThread Security	140
Figure 7-8	VoiceThread Registration	141
Figure 7-9	Use of VoiceThread	142
Figure 7-10	Wildside Avatar	145

Figure 7-11	Topical Graphic Organizer	146
Figure 7-12	Interview Questions	146
Figure 7-13	Comments on VoiceThread Presentations	147
Figure 7-14	Evaluation Rubric	149
Figure 8-1	Fifth Grade Class Bookmarks	153
Figure 8-2	Project Ideas	154
Figure 8-3	Reviewing for Quizzes	155
Figure 8-4	Del.icio.us Bookmarks	156
Figure 8-5	Diigo	156
Figure 8-6	Sign Up Page	157
Figure 8-7	Toolbar	157
Figure 8-8	Bookmarking	158
Figure 8-9	Tag Cloud	159
Figure 8-10	Grocery Bag Project	164
Figure 8-11	Global Warming Wheel Card	165
Figure 8-12	Ocean Conservancy Beach Debris Data	166
Figure 8-13	Self-Evaluation Rubric	167
Figure 8-14	Evaluation Checklist	168

TABLES

Table 1-1	General URLs	12
Table 2-1	Sample URLs for Stem Cell Research Project	32
Table 2-2	General URLs on Blogging	37
Table 3-1	URLs for Immigrant Unit	51
Table 3-2	General URLs for Podcasting	60
Table 4-1	Wiki Feature Comparison	71
Table 4-2	URLs for the Gatsby Unit	76
Table 4-3	General Wiki URLs	83
Table 5-1	General URLs for Digital Storytelling	96
Table 5-2	URLs for the Energy Unit	102
Table 6-1	URLs for the WebQuest Unit	122
Table 6-2	General Google Tool URLs	128
Table 7-1	Sample VoiceThreads	144
Table 7-2	General VoiceThread URLs	150
Table 8-1	URLs for the Earth Day Unit	162
Table 8-2	General Social Bookmarking URLs	162
Table 8-3	Project Ideas	163

Preface

The Internet is as commonplace in schools as desks and blackboards. Youth today, perhaps even more so than their teachers, are skilled in using computers and small devices for text-messaging, sending pictures, sharing music, reading books, and simply surfing from Web site to Web site. Thus, it is now more vital than ever that teachers use technology to engage their students' attention across the curriculum. Many teachers crave effective models for how, why, and when to use new Internet technology with daily lessons.

Using Web 2.0 Tools in the K–12 Classroom provides library media specialists, technology coordinators, and teachers at the elementary and secondary levels with guidelines, models, and strategies for using Web 2.0 (or the Read Write Web, as it is often called). The pages that follow contain strategies and practical suggestions that English, language arts, social studies, science, and English-as-a-second-language teachers can use to integrate Web 2.0 as an essential part of the lessons and units they teach. Parents, who in greater numbers are teaching their children at home, can use the unit plans to incorporate technology into writing, literature, science, and social studies. Pre-service teacher educators and library school program instructors may use the exercises and step-by-step instructions to provide their students with the knowledge and skills to meet state-mandated technology standards.

This book has four goals:

1. To describe Web 2.0 tools to educators new to the technologies so they can discuss them intelligently with students and their colleagues
2. To model Web 2.0 tools through classroom examples
3. To explain to beginning users how to get started with each tool
4. To present practical unit plans illustrating the use of Web 2.0 in the K–12 content-area curricula

Using Web 2.0 Tools in the K–12 Classroom is divided into eight chapters. Chapter 1 introduces trends for the twenty-first century, teaching strategies using Web 2.0, and describes the framework for the model units that appear in the following chapters. Chapters 2 through 8 focus on Web 2.0 tools that educators have identified as useful and motivating to student learning. They include blogs, podcasts, wikis, digital storytelling, Google tools, VoiceThreads, and social bookmarking.

Each chapter emphasizes one or more of the following:

1. Incorporating Web 2.0 into the curriculum for communication, research, collaboration, and connections that will bring teachers and library media specialists together
2. Activities that are varied, interesting, and achieve the fullest, most productive involvement of students
3. Instructional techniques that include independent, competitive, and cooperative learning
4. Interdisciplinary studies so that students will recognize the connections among subject areas

Chapters have a similar three-part structure: Part 1, “Ideas and Insights,” identifies and describes the Web 2.0 tool that is the focus of the chapter and illustrates through a series of examples in specific

content areas, how the tool integrates into the curriculum, as well as advantages for using it in the classroom. Part 2, “Getting Started,” provides examples of a Web 2.0 tool and illustrates step by step how to begin using the tool. Part 3, “Practical Applications,” includes practical unit-plan models in different content areas at both the elementary and secondary levels. The unit explains how the technology combines with broad-based examples in core content areas—language arts, social studies, and science. Educators can use the plans as they are presented or modify them to meet the individual needs of students and curricula. Two sets of exercises in each chapter offer opportunities for readers to practice what they have just learned, become familiar with Web 2.0 tools, and reflect on the content of the chapter. Each chapter also contains a glossary of new terms and a list of Web sites that will be useful for the topic under discussion. Appendix A includes a list by chapter of all URLs contained in the book. Appendix B describes the accompanying Web site.

In addition to its focus on a different Web 2.0 tool, each chapter also incorporates a different subject area, topic, and age level. Chapter 2, “Blogging in the Language Arts,” for example, illustrates blogging in secondary English. The topic of contemporary issues is ideal for an I-Search paper, and the unit plan emphasizes the science topic of “stem cell research.” Chapter 3, “Experiencing History Through Podcasts,” lets upper elementary or middle school students explore in groups the current hot topic of “immigration” through research and creating a podcast. Taking the topic a step further, they analyze the concept of the “American Dream.” Chapter 4, “Creating Literature Wikis in the Classroom,” explores the novel *The Great Gatsby*, taught to secondary English students. The unit lets students collaborate easily using wiki technology. Chapter 5, “Digital Storytelling: Cross-Curricular Connections,” enables middle school students to focus on their preferred learning style as they create stories and incorporate video and audio into a digital story. Chapter 6, “Google in the Classroom—More Than Just Research,” goes beyond using Google for research and introduces a suite of other tools for collaborating, blogging, exploring the earth, and much more. The unit for this chapter uses the popular WebQuest to explore Cuba, the island that has been isolated for over 20 years. Chapter 7, “Enhancing English Language Learning with Web 2.0 Tools,” lets non-native English speakers collaborate on culture with students in other countries. Finally, Chapter 8, “Social Bookmarking and Putting It All Together,” introduces a new tool and culminates with a science unit on the environment, which combines several Web 2.0 tools discussed throughout the book.

In addition to this printed book, *Using Web 2.0 in the K–12 Classroom* features a companion Web site: www.neal-schuman.com/webclassroom. The Web site provides curriculum examples from pioneering educators around the world, as well as exercises and lessons in subject areas and grade levels not highlighted in the book. A “What’s New” section will keep readers up to date with interesting technologies and ones where space in the book prevented covering them. A link on the Web site provides access to Bev’s Edublog so readers can share tips on technologies and innovative lesson ideas. Web site notations in each chapter indicate places where the Web site might provide additional information.

Using Web 2.0 Tools in the K–12 Classroom is intended to encourage educators to learn more about and try Web 2.0 tools that many of their students are already using outside the classroom. The explanatory material, step-by-step explanations, examples and model units should prompt teachers and library media specialists to try these new technologies, and the accompanying Web site will continue to expand their knowledge and skills. All educators seek to motivate students to learn the content we are teaching, to think critically while learning, and to communicate on broad levels both inside and outside the classroom. Students are already using Web 2.0 tools discussed in this book in their daily lives. We must take advantage of their knowledge and skill to make learning that much more exciting and meaningful for them. A successful experience using Web 2.0 tools in the classroom can make all the difference!

Acknowledgments

This book is the result of the time and effort of teachers, library media specialists, and IT educators who spent hours learning about Web 2.0 technology and, more important, integrating it into content area lessons and libraries so that motivated students may learn the skills they will need for tasks and jobs in the twenty-first century. Thanks to the educators who appear in my book for permission to use illustrations of their excellent ideas that appear on their Web sites.

Special thanks to Sandy Wood, my editor at Neal-Schuman, whose help with Bev's Web site has added a further dimension to *Using Web 2.0 in the K-12 Classroom*.

This article analyses the use of Web 2.0 in twenty institutional web sites used by military organisations (ministry of defence). Organisational communication online is by definition the strategic area for the institutions of our times. This is why it is important to use all the resources available on the web in the construction of the message. The article finds that these resources are being used [Show full abstract] but that is also necessary to integrate them further in the process of institutional communication. From blogs to wikis, invite Web 2.0 tools into the classroom. In this invaluable resource you ll find a host of Web 2.0 tools available on the Internet today, plus teaching and learning strategies to use them in the K-12 classroom. Language arts, science, and social studies unit lesson plans included in each chapter exemplify topics at the elementary, middle, and high scho From blogs to wikis, invite Web 2.0 tools into the classroom. In this invaluable resource you ll find a host of Web 2.0 tools available on the Internet today, plus teaching and learning strategies to use them in the K-12 cla... Using Web 2.0 Tools in th has been added to your Cart. Add to Cart. Turn on 1-Click ordering.Â The book will also prove useful to school media specialists for library implementation and to collaborate with teachers on the development and utilization of these exciting tools." - - School Library Journal, June 2009 "We recommend this book for its usefulness....Highly Recommended." - - Teacher Librarian, Volume 36, No. 4 "A "how-to" and "why should I?" manual all rolled into one easy-to-understand text....widely appealing to teachers, librarians and school media specialists."