

Web 2.0

Hot Apps &
Cool Projects

Science

2nd Edition

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Table of Contents

Introduction to Web 2.0 Hot Apps/Cool Projects

Web 2.0 Disclaimers	1
Student Safety & Privacy.....	2
Student Email.....	2
Creating Accounts for Students.....	3
Copyright-friendly Image Sources	4
Similar/Alternate Web 2.0 Sites	8

Animoto

Animoto.....	11
User's Guide to Animoto.....	12
Applying for an All-Access Teacher Account.....	12
Creating Accounts for Students.....	12
Student Registration Sheet	13
Starting a New Video Project.....	14
Uploading Images.....	15
Adding Animoto Title Slides.....	16
Creating a Custom Title Slide Using PowerPoint.....	17
Editing Images.....	20
Adding Music.....	23
Finalising the Video.....	25
Viewing Videos.....	26
Re-mixing a Video.....	26
Sharing Videos.....	27
Downloading the Video as an MP4 File.....	27
Linking to the Video on the Animoto Website.....	27
Embedding the Video into another Website.....	28
Storyboard for Animoto Videos.....	30

Big Huge Labs Trading Cards

Big Huge Labs	33
User's Guide to BigHugeLab's Trading Cards	34
Creating a Teacher Account	34
Creating Student Accounts	35
Creating Trading Cards	36

TypeWithMe

TypeWithMe.....	41
User’s Guide to TypeWithMe.....	42
Creating a Pad.....	42
Sharing Your Pad.....	42
Before Editing.....	42
Editing the Document.....	43
Saving Versions of your Work.....	43
Exporting your Final Draft.....	44

Mixbook

Mixbook.....	47
User’s Guide to Mixbook.....	48
Creating an Account.....	48
Starting a New Mixbook.....	48
Resume Editing a Mixbook.....	51
Uploading Photos to My Photos.....	51
Adding/Removing Pages.....	52
Selecting the Background.....	53
Editing the Background.....	54
Selecting Layouts.....	55
Adding/Editing Photos & Stickers.....	55
Adding/Editing Text.....	57
Publishing the Book.....	59
Storyboard for Mixbooks.....	62

TinyPaste

TinyPaste.....	65
User’s Guide to TinyPaste.....	66
Creating a TinyPaste.....	66
Editing the TinyPaste.....	66
Adding a Link.....	67
Adding an image.....	68
Adding a video.....	68
Finishing the posting.....	69

Voki

Voki.....	71
User's Guide to Voki.....	72
Creating a Voki.....	72
Customise your character.....	73
Recording the voice.....	74
Selecting a background.....	75
Select a player.....	76
Publishing your Voki.....	76

Wordle

Wordle.....	79
User's Guide to Wordle.....	80
Creating a Wordle.....	80
Customising the Wordle.....	81
Printing and Saving Wordles.....	82

Online Samples of Lessons

Animoto.....	84
Mixbook.....	84
Voki.....	85

General Science Projects

TypeWithMe: Scrambled Lab Report.....	87
TypeWithMe: Lab Safety Guidelines.....	93
TinyPaste: Tools of Science.....	97
BigHugeLabs Trading Cards: Metric Measurement.....	101
TypeWithMe: Famous Scientists.....	105

Cell Biology Projects

TinyPaste: Cellular Organelles.....	109
TypeWithMe: Steps of Mitosis.....	113

Human Body

BigHugeLabs Trading Cards: Digestive Process.....	117
Wordle: Acquired and Inherited Traits.....	121
Mixbook: The Five Senses.....	125

Zoology and Botany

Animoto Video: Characteristics of Living Things.....	129
Wordle: Five Kingdoms.....	133
TinyPaste: Insects.....	137
Voki: Dinosaur Mystery.....	141
Animoto Video: Food from Plant Parts.....	145
Voki: Photosynthesis.....	149

Ecology

Mixbook: Biomes.....	153
TinyPaste: Food Chain.....	157
BigHugeLabs Trading Cards: Animal Adaptations.....	161

Earth and Space

Wordle: Landforms.....	165
Voki: Forces of Nature.....	169
Mixbook: Rock Classification & Cycles.....	173
Voki: Characteristics of the Moon.....	177
Voki: Ocean Tides.....	181
BigHugeLabs Trading Cards: The Eight Planets.....	185

Energy and Motion

Animoto Video: Energy Forms.....	189
Mixbook: Simple Machines.....	193

Chemistry

Mixbook: Common Uses of the Elements.....	197
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Weather and Erosion

Wordle: 4 Seasons.....	201
Animoto Video: Water Cycle.....	205
Animoto Video: Natural Disasters.....	209

STUDENT ACTIVITY

Wordle: Acquired and Inherited Traits**Year Level: Content Area(s):**

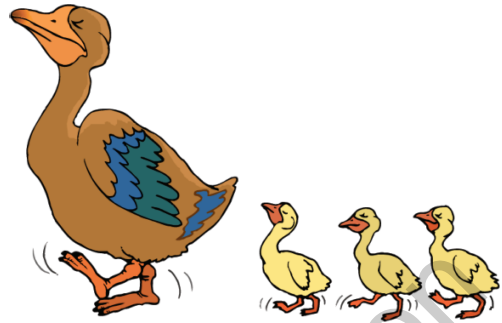
Middle Years Science (5-8)

On go.hbe.com.au:

Acquired-InheritedSAS.pdf

AcquiredTraits.png

InheritedTraits.png

**Lesson Overview:**

Students will use Wordle to create a word cloud using words and phrases that identify acquired and inherited traits. Students will brainstorm ideas for each type of traits and will use a Student Activity Sheet to record these ideas. Students will then create their Wordle and will refine the results until they are satisfied with the final result. Students will then either print or create a screen capture of the Wordle.

Software or Special Materials/Supplies:

Student Activity Sheet

Flash-enabled web browser (Firefox recommended)

Essential Concepts:

- Every organism requires a set of instructions for specifying its traits. Heredity is the passage of these instructions from one generation to another.
- The characteristics of an organism can be described in terms of a combination of traits. Some traits are inherited and others result from interactions with the environment.

Procedures:

This lesson should follow a brief introduction of acquired and inherited traits and is intended to reinforce concepts that have already been introduced.

Before Computer Work Begins

1. Have students use the Acquired-Inherited Student Activity Sheet to brainstorm words and phrases to describe each of the types of traits.
2. Print the necessary sections of the User's Guide to Wordle.

Computer Activities

1. Remind students of the requirements for this project as stated on the Student Activity Sheet.
2. Guide students to <http://www.wordle.net/create>.
3. Lead students in beginning a new project, referring to the User's Guide as needed.
4. Demonstrate how to insert the tilde (~) character between words in a phrase.
5. Demonstrate how to adjust size of words in the Wordle by increasing the number of times the word is entered into the list.
6. Students will click Go to create the Wordle and then will revise the Wordle until a pleasing configuration is found.
7. Students will then print their Wordle or use a screen capture to save their Wordle as a .jpg or another format.

STUDENT ACTIVITY

Wordle: Landforms**Year Level: Content Area(s):**

Middles Years Science (5-8)

On go.hbe.com.au:

LandformsSAS.pdf

LandformsSample.jpg

**Lesson Overview:**

Students will use Wordle to create a word cloud using words and phrases that identify various landforms. Students will brainstorm ideas of types of landforms and will use a Student Activity Sheet to record these ideas. Students will then create their Wordle and will refine the results until they are satisfied with the final result. Students will either print or create a screen capture of the Wordle.

Software or Special Materials/Supplies:

Student Activity Sheet

Flash-enabled web browser (Firefox recommended)

Essential Concepts:

Landforms are the result of a combination of constructive and destructive forces. Constructive forces include crustal deformation, volcanic eruption and deposition of sediment, while destructive forces include weathering and erosion.

Procedures:

This lesson should follow a brief introduction of landforms and is intended to reinforce concepts that have already been introduced.

Before Computer Work Begins

1. Have students use the Landforms Student Activity Sheet to brainstorm words and phrases to describe at least ten types of landforms.
2. Print the necessary sections of the User's Guide to Wordle.

Computer Activities

1. Remind students of the requirements for this project as stated on the Student Activity Sheet.
2. Guide students to <http://www.wordle.net/create>
3. Lead students in beginning a new project, referring to the User's Guide as needed.
4. Demonstrate how to insert the tilde (~) character between words in a phrase.
5. Demonstrate how to adjust the size of words in the Wordle by increasing the number of times the word is entered into the list.
6. Students will click Go to create the Wordle and then will revise the Wordle until a pleasing configuration is found.
7. Students will then print their Wordle, or will use a screen capture to save their Wordle as a jpg or another format.

Name: _____ Date: _____

Landforms

The earth has a wide variety of features appearing all over the world. List at least ten of the landforms below and then create a Wordle using those landforms. Remember when entering in phrases, they need a tilde (~) between each word to keep them together. For example, salt marsh would need to be typed in as salt~marsh. Type the title in several times so it is larger than the landforms.

Landforms



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STUDENT ACTIVITY

Wordle: 4 Seasons**Years Level: Content Area(s):**

Middle Years Science (5-8)

On go.hbe.com.au:

4SeasonsSAS.pdf

Autumn.png

Spring.jpg

Summer.jpg

Winter.jpg

**Lesson Overview:**

Students will use Wordle to create a word cloud using words and phrases associated with the four seasons. Students will brainstorm ideas for each of the seasons and will use a Student Activity Sheet to record these ideas. Students will then create their Wordle and will refine the results until they are satisfied with the final result. Students will either print or create a screen capture of the Wordle.

Software or Special Materials/Supplies:

Student Activity Sheet

Flash-enabled web browser (Firefox recommended)

Essential Concepts:

Seasons result from variations in the amount of the sun's energy hitting the surface, due to the tilt of the earth's rotation on its axis and the length of the day.

Procedures:

This lesson should follow a brief introduction of the four seasons and is intended to reinforce concepts that have already been introduced.

Before Computer Work Begins

1. Have students use the 4Seasons Student Activity Sheet to brainstorm words and phrases about the four seasons.
2. Print the necessary sections of the User's Guide to Wordle.

Computer Activities

1. Remind students of the requirements for this project as stated on the Student Activity Sheet.
2. Guide students to <http://www.wordle.net/create>.
3. Lead students in beginning a new project, referring to the User's Guide as needed.
4. Demonstrate how to insert the tilde (~) character between words in a phrase.
5. Demonstrate how to adjust size of words in the Wordle by increasing the number of times the word is entered into the list.
6. Students will click GO to create the Wordle, and then will revise the Wordle until a pleasing configuration is found.
7. Students will then print their Wordle, or will use a screen capture to save their Wordle as a .jpg or another format.

Name: _____ Date: _____

4 Seasons

Each of the 4 seasons is very different. List at least 5 words or phrases associated with each season. Complete the form below, and then create a Wordle for each season using those words. Remember when entering in phrases, they need a tilde (~) between each word to keep them together. For example, warm weather would need to be typed in as warm~weather. Type the title in several times so it is larger than the landforms.

www.wordle.net/create

