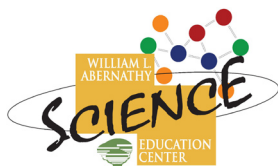


GREENBUSH INTERACTIVE STREAMING

Bringing live interactive streaming programs in math, science, language arts, and social studies directly to your classroom.



Testing is required prior to registration. Technical specifications and streaming protocols can be found at <http://streaming.greenbush.us>. To set up a test contact Darren Couch at darren.couch@greenbush.org or 620-724-6281.

To register for streaming programs please contact Jenni Diskin at jenni.diskin@greenbush.org or 620-724-6281. The following information is needed to register for programs: school name, teacher name, teacher email address, grade level, number of students, program topic(s), 1st choice of date/time, 2nd choice of date/time.

Fall 2009 Streaming Programs

K-2

Title & Grade	Description	Standards	Date	Time	Teacher
An Apple a Day 1st-2nd Grades	Sharpen your observation skills and learn the process of the scientific method during this hands-on lesson experimenting with apples.	1st-2nd Science: 1:1.1, 1:1.3-1:1.5, 2:1.1	September 30th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
Flutterby K-2nd Grades	Butterflies flutter by in spring and summer, but where do they go during the winter? Learn about the migration of butterflies, life cycles, and body structures in this interactive lesson.	K-2nd Science: 1:1.4, 1:1.5, 3:1.3, 3:1.4	September 30th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
You Are What You Eat K-2nd Grades	Get a healthy start on the school year. Students will become familiar with the Food Guide Pyramid as well as the appropriate portion size necessary to make good food choices and maintain optimal health.	K-2nd Science: 6:1.2	September 18th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Along Came a Spider 1st-2nd Grades	They creep, they crawl and sometimes they scurry! Some are big and some are small, but no matter their size, they are feared by many humans! Learn about the life cycles, body parts and habitats of spiders and observe them up close and personal during this creepy program!	1st-2nd Science: 3:1.4	October 5th, 13th, 21st, 29th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride

K-2 Continued

Title & Grade	Description	Standards	Date	Time	Teacher
A Trip to the Past: Native Americans 2nd Grade	Experience culture through stories, artifacts and activities which will compare the lives of Native Americans in the past to how we live today.	2nd Social Studies: 2.1	November 6th, 9th, 18th, 24th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
Splish Splash Science 1st-2nd Grades	Investigate water through observations and experiments. It's sure to be a wet and wild time!	1st-2nd Science: 2:1.4, 7:1.1	December 3rd, 11th, 14th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride

3-5

Title & Grade	Description	Standards	Date	Time	Teacher
Hurricanes: Twisters in the Tropics 5th Grade 1 Hour Program	Learn how hurricanes are formed, the destruction they can cause, what people do to prepare for them, and how to track them using latitude/ longitude coordinates.	5th Science: 6:3.2	September 30th	8:15-9:15 9:25-10:25 10:30-11:30 12:15-1:15 1:30-2:30	Lisa Pride
Insect ID 3rd-5th Grades 1 Hour Program	Learn how to identify insects by exploring their body structure and examining behavioral and physical adaptations during this hands-on lesson. Note: Live Madagascar Hissing Roaches will be explored in this hands-on lesson.	3rd-4th Science: 3:.1.1-3:1.3 p, 3:.2.1	September 30th	8:15-9:15 9:25-10:25 10:30-11:30 12:15-1:15 1:30-2:30	Lisa Pride
You Are What You Eat 3rd-4th Grades	Get a healthy start on the school year. Students will review the Food Guide Pyramid as well as the appropriate portion size necessary to make good food choices and maintain optimal health. Students will review their diet for a day to see if it follows the food pyramid suggestions.	3rd-4th Science: 6:1.1	September 18th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Flight 4th-5th Grades	Learn the principles of flight and how to make several types of paper airplanes. Develop an experiment to test which airplane is really the best. A great introduction to inquiry!	4th-5th Science: 1:1.1-1:1.3	September 18th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Classification 3rd-4th Grades	A dichotomous key is a tool that allows the user to determine the identity of items in the natural world. Students will classify candy to gain an understanding of how a dichotomous key works. Science is sweet! Teachers will be asked to supply some basic materials.	3rd-4th Science: 2:4.2	September 18th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Chances Are... 3rd-5th Grades	Through a variety of hands-on activities, students will learn about probability. Chances are we will have fun learning.	3rd-5th Math: 4:1.1, 4:1.2, 4:1.4	October 6th, 14th, 22nd, 26th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Halloween Math 3rd-4th Grades	Get into the "spirit" of Halloween with these math games designed to brush up on basic math skills.	3rd-4th Math: 1:2.1, 1:4.1, 1:4.2, 1:4.4	October 6th, 14th, 22nd, 26th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Terrific Tessellations 5th Grade	A tessellation, or tiling, is created when a shape is repeated without any gaps or overlaps. This lesson allows students to examine tessellations and their geometric properties while creating a mathematical work of art.	5th Math: 3:1.1, 3:3.1	October 6th, 14th, 22nd, 26th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson

3-5 Continued

Title & Grade	Description	Standards	Date	Time	Teacher
Can You Haiku? 3rd-4th Grades	Haiku is a type of poetry from the Japanese culture. Haiku combines form, content, and language in a meaningful, yet compact way. Students will learn about the characteristics of Haiku poetry and compose original Haiku.	3rd-4th Writing: 1:1.1, 1:1.2, 1:1.3, 1:1.9	November 5th, 10th, 19th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Math Games I 3rd-4th Grades	Learn a variety of fun math games designed to review and practice key math skills.	3rd-4th Math: 1:2.1, 1:4.1, 1:4.2, 1:4.4	November 5th, 10th, 19th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Rock On! 4th-5th Grades	Learn about and see examples of the three main types of rocks. Practice describing and classifying rocks and get a start on your own collection. Teachers will be asked to supply some basic materials.	4th-5th Science: 4:1.1, 4:1.2	November 5th, 10th, 19th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Plate Tectonics 5th Grade	In this lesson, students are introduced to the theory of plate tectonics and explore how the theory was developed and supported by evidence.	5th Science: 4:2.1	December 4th, 10th, 15th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Winter Weather 3rd Grade	Winter is coming. Prepare yourself by learning about the weather for this time of year and what to do to stay safe and warm. Teachers will be asked to supply some basic materials.	3rd Science: 6:1.2 3rd Math: 3:1.6	December 4th, 10th, 15th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Sharon Wilson
Candy Science 4th-5th Grades	Learn how to write a hypothesis, make sharp observations, record data, and come to conclusions in this inquiry-based, sweet lesson.	4th-5th Science: 1:1.1-1:1.4, 1:3.1, 2:1.1-2:1.4, 7:1.1,	October 5th, 13th, 21st, 29th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
Brain Games I 3rd-4th Grades	If you don't use it, you might lose it! Keep your brain fit by participating in games designed to stimulate creative thinking and problem-solving.	3rd-4th Math: 1:1.3, 1:4.1, 1:4.3, 3:1.1, 3:1.2	October 5th, 13th, 21st, 29th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
Along Came a Spider 3rd-4th Grades	They creep, they crawl and sometimes they scurry! Some are big and some are small, but no matter their size, they are feared by many humans! Learn about the life cycle, body parts, and habitats of spiders and observe them up close and personal during this creepy program!	3rd-4th Science: 3:1.1, 3:1.2, 3:1.3, 3:2.1	October 5th, 13th, 21st, 29th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
Fossils 3rd-4th Grades	What are fossils and where do they come from? Explore the answers to these questions during this hands-on program and make a replica fossil to take home.	3rd-4th Science: 4:1.4	October 5th, 13th, 21st, 29th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
Bird Basics 3rd-4th Grades	Become an Ornithologist for a day and study the characteristics, habitats, and adaptations of birds.	3rd-4th Science: 1:1.1-1:1.4, 3:1.1- 3:1.2, 3:1.3	November 6th, 9th, 18th, 24th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride

3-5 Continued

Soil & Erosion 1 Hour Program 3rd-4th Grades	Experiment with materials to see how erosion affects our earth and learn ways that it can be prevented during this hands-on lesson.	3rd-4th Science: 1:1.1-1:1.4, 4:3.1	November 6th, 9th, 18th, 24th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
A Trip to the Past: Native Americans 3rd Grade	Experience culture through stories, artifacts and activities which will compare the lives of the Native Americans in the past to how we live today.	3rd Social Studies: 2.1, 2.2	November 6th, 9th, 18th, 24th	8:30-9:15 9:30-10:15 10:30-11:15 12:15-1:00 1:15-2:00 2:15-3:00	Lisa Pride
Force & Motion 3rd-5th Grades	Students will explore the relationship between forces and the motion they produce. Concepts of speed and acceleration will be introduced through mechanics experiments.	3rd-5th Science: 2:1.1	Dates available as requested	Time available as requested	Science Center Staff
Sound 3rd-5th Grades	Dive deep into the realm of sound waves and study their properties. Students will discover the source of all sounds as well as learn what all sound waves have in common and how this can help everyone understand their behavior.	3rd-5th Science: 2:3.1	Dates available as requested	Time available as requested	Science Center Staff
Magnets 3rd-5th Grades	Do you attract or repel? Understanding the basics of magnets and how they interact is a foundation of science. Students will perform experiments that show a magnet's field and how a compass is made.	3rd-5th Science: 2:4.1	Dates available as requested	Time available as requested	Science Center Staff
Simple Circuits 3rd-5th Grades	Electricity is a fundamental part of modern life, but exactly how does a circuit carry energy to an object? This idea will be explored through hands-on circuit construction and energy measurement.	3rd-5th Science: 2:4.3	Dates available as requested	Time available as requested	Science Center Staff
Classify Earth Materials 3rd-5th Grades	Have you thought about a rock today? Rocks make up the physical foundation of planet Earth, but what other information can be learned from studying them? Come unlock the secrets contained within rocks.	3rd-5th Science: 4:1.1	Dates available as requested	Time available as requested	Science Center Staff
Properties of Water 3rd-5th Grades	What separates planet Earth from every other planet found in our solar system: liquid water and lots of it. How does this water change our planet? Students will experiment with water and its changing states of matter to answer this question and more.	3rd-5th Science: 4:1.3	Dates available as requested	Time available as requested	Science Center Staff
The Sun's Energy 3rd-5th Grades	Energy is everywhere. Energy is available to make food grow and to power our cars and homes. All of that energy has to come from somewhere. The power source for our planet comes from the Sun. Exploring energy and its different uses and forms will be at the heart of this lesson.	3rd-5th Science: 4:2.3	Dates available as requested	Time available as requested	Science Center Staff
Changes in Earth's Surface 3rd-5th Grades	What makes a river grow deeper over time? How does the soil move from place to place? Erosion and plate tectonics are key forces that keep Earth's surface in constant motion. Students will model these processes in order to better understand their role in Earth's history.	3rd-5th Science: 4:3.1	Dates available as requested	Time available as requested	Science Center Staff

3-5 Continued

Title & Grade	Description	Standards	Date	Time	Teacher
Seasonal Weather Changes 3rd-5th Grades	Weather in Kansas is dynamic and ever-changing with many factors influencing it. Students will explore why the winds blow and how thunderstorms and tornadoes form in our area.	3rd-5th Science: 4:3.2	Dates available as requested	Time available as requested	Science Center Staff
Design Problem 3rd-5th Grades	Challenge your students with this lesson on designing the best tower possible. Students will have a short time to build a functional tower and then look at the elements of construction to see who was the most successful and how evaluation of results can improve their structures.	3rd-5th Science: 5:1.1	Dates available as requested	Time available as requested	Science Center Staff

Greenbush Interactive Streaming

Greenbush is offering a new program for the 2009-10 school year that is designed to deliver elementary and middle school academic programs to schools that do not have distance learning classrooms. Live video streaming is an interactive technology that connects over the Internet and requires minimal equipment at schools. The monthly program calendar will be posted to the website to allow schools ample time to review the events and register. All schools must register for specific programs at designated times. To register for a program, please contact Jenni Diskin at jenni.diskin@greenbush.org or 620-724-6281. All academic programs are aligned to Kansas Teaching Standards and are taught by licensed Kansas teachers.

Procedures for Connecting to a Live Video Streaming Program:

Schools participating in Greenbush Live Video Streaming programs are required to test with Greenbush prior to registering for events. To schedule a test, please contact Darren Couch at darren.couch@greenbush.org. Prior to testing, please review the list of requirements below to ensure your district can receive the Live Streaming. Once testing is completed, teachers may register for programs.

Greenbush Live Streaming Requirements:

To receive a Live Streaming program, participating schools will need the following equipment set up in a classroom:

- 1) a computer connected to the internet with external speakers for students to hear the teacher
- 2) an external video camera for the teacher to see students
- 3) a microphone for students to speak to the teacher
- 4) a projector and screen or other means of displaying the video from the computer

The website for Live Streaming is <http://greenbush.na4.acrobat.com/idl/>. Please check to ensure your computer has the necessary operating system and browser from the list below.

Supported Operating Systems & Browsers

Microsoft® Windows Vista® Home Basic, Home Premium, Ultimate, Business, or Enterprise (32-bit edition)

- Microsoft Internet Explorer 7 or later
- Mozilla Firefox 2
- Adobe Flash® Player 8 or later

Microsoft Windows® XP Professional or Home Edition with Service Pack 2

- Microsoft Internet Explorer 6, 7
- Mozilla Firefox 1.x, 2.x
- Mozilla 1.x or later
- Netscape 7.x
- Adobe Flash Player 8 or later

Microsoft Windows 2000 with Service Pack 4

- Microsoft Internet Explorer 5.x
- Mozilla Firefox 1.x, 2.x
- Mozilla 1.x
- Netscape 8
- Adobe Flash Player 8 or later

Windows hardware requirements

- Intel® Pentium® II 450MHz or faster processor or equivalent (1GHz recommended when screen sharing)
- 128MB of RAM

Mac OS X v10.4, 10.5 (Intel)

- Firefox 1.5.0.3, 2.x
- Safari 2.x
- Adobe Flash Player 8 or later

Mac OS X v10.4 (PowerPC®)

- Safari 1.x, 2.x
- Firefox 1.x
- Mozilla 1.x
- Netscape 7.x or later
- Adobe Flash Player 8 or later

Mac OS hardware requirements

- PowerPC G3 500MHz or faster or Intel Core™ Duo 1.83GHz or faster processor
- 128MB of RAM

Internet Connection:

The Live Streaming program connects over the public internet. Minimum bandwidth requirement is 56 kb/sec and a wired connection is recommended. In order for Connect Presentation and Acrobat Connect Professional to work properly, **ports 80 and 1935 must be opened** for the Connect servers in the corporate firewall/proxy as well as the clients.

Test Your Computer

You can test your computer at https://admin.acrobat.com/common/help/en/support/meeting_test.htm.

Flash Player

You will need the most recent version of Flash Player. Adobe Flash Player is standard in most browsers. You can find out which version of Flash Player you have at the Adobe Flash website: <http://www.adobe.com/products/flash/about>

Web Camera & Microphone

- Logitech USB Desktop Microphone (recommended) with usb extension cable
- Camera can be a webcam with 2 MP or better or video camera with firewire plugin

Setting Up Audio and Video

Audio Setup:

In the Adobe Connect meeting room:

- From the “Meeting” menu at the top of the window, select “Manage My Settings>Audio Setup Wizard.”
- Follow the directions on the screen.
- Note: If any of the Wizard tests fail, you will need to troubleshoot your microphone and speakers. Please be aware that the Wizard will allow you to continue even if your computer fails a test.

Video Setup:

In the Adobe Connect meeting room:

- From the “Meeting” menu at the top of the window, choose “Manage My Settings” > “Select Camera.”
- A Settings window opens, with the “Camera” tab selected
- Click on the camera icon and select your camera from the drop-down list. You may see a window pop up on the screen asking you to allow your video to be broadcast - click “Allow.” This window appears only once during a meeting no matter how many times you turn off and on your camera.
- Note: If no camera is connected, a “No Camera Found” message appears instead of the Camera drop-down list. If you do have a camera connected but you get a “No Camera Found” message, check to be sure your camera is turned on and not being used by another application.
- Click “Close.”

Troubleshooting

- *There’s no sound.*
 - Run the Audio Setup Wizard.
 - Check your computer’s volume settings.
 - See if the microphone icon appears on the bottom left corner of the speaker’s video window. On your own video window, there’s also a green bar indicating the speech volume.
- *The sound is suddenly muted or distorted during the meeting.*
 - Try logging out of the session and then back in.
 - Try emptying your browser cache and logging back in.
 - Try logging out of the session, exiting your browser and deleting files under your temporary internet files folder, then logging back in.
 - Try the above, but also delete the saved data from webpages under your Macromedia directory, for example: C:\Documents and Settings\”username”\Application Data\Macromedia\Flesh Player\#SharedObjects and C:\Documents and Settings\”username”\Application Data\Macromedia\Flesh Player\macromedia.com\support\flashplayer\sys
 - Playing some other sound, or muting and un-muting the speaker solves the problem short term, but it tends to come back after a while.
- *Sound quality is low.*
 - Check that the correct microphone is selected by running the Audio Setup Wizard. Some cameras have an integrated microphone. Using this microphone is not adequate.
 - In group situations, check that that the silence level is not set too high. The Audio Setup Wizard default seems to be 10, but for situations where a large group is using the same desktop microphone, this needs to be set significantly lower, e.g. 2.
- *There’s no video.*
 - Check that the correct camera is selected by choosing Select Camera in the Meeting menu.
 - Make sure the cameras are enabled. First activate the camera by pressing the button on the bottom left corner of the Camera and voice pod. Then, in the Pod options (the bottom right button), see that Camera Off is not selected.
 - Make sure camera drivers are installed properly

Contact Information: Darren Couch, darren.couch@greenbush.org or Jon Stephens, jon.stephens@greenbush.org or call 620-724-6281.