

QR Codes in the classroom



Susie Taft & Dave Dennie



What is a QR Code?

- Square Two-dimensional computer generated image
- QR stands for Quick Response
- •It is often mistaken for a barcode
- QR codes can be read in two directions = store more data than traditional bar code
- •It embeds a large amount of data within the code
- Used first in Japan to help inventory auto parts in 1994



What can be embedded in a QR Code?

- Text
- •Audio
- •Links to web pages
- Documents
- •iTunes app store
- Photos

- Contact information
- YouTube
- Facebook Profile
- •Twitter
- •Link to Google Maps



How to read QR Codes

App for Blackberry

Beetagg

Apps for iPad

Scan QR Code i-nigma ScanMydoc

Apps for Droid

RedLaser Barcode & QR Scanner QR Droid QR Barcode Scanner At&T Code Scanner Neo Reader

For the Desktop

<u>http://desktop-qr-scanner.software.informer.com/screenshot/323540/</u> <u>http://icandy.ricohinnovations.com/rocket2/</u> <u>http://www.quickmark.com.tw/En/basic/downloadPC.asp</u> QR codes are great on mobile devices, but there's lots of potential for the desktop/laptop world as well. Applications like iCandy [<u>http://icandy.ricohinnovations.com/rocket2/</u>] and a simple adobe air application by Dansl [<u>http://www.dansl.net/blog/?p=256</u>] expand the possibilities that come with QR codes.





Creating your own codes?

Choose a code generator

Qrstuff.com Qrcode.kaywa.com Goqr.me Beqrious.com qrvoice.net



http://delivr.com/Q R-Code-Generator

http://zxing.appspot.com/generator http://keremerkan.net/qr-code-and-2d-code-generator

http://qrcode.kaywa.com/



http://www.qrstuff.com



Using the codes

- •Select the type of code you want to generate
- •Insert the necessary information
- Download and save your code
- •Insert your code where you choose

Using QR Codes in Education

- Worksheet or study guide with QR Code answers and/or video tutorials
- Book summary glued inside back cover
- Audio link to poetry readings
- Link to text version of story from poster illustration
- Include on flyers for more information
- Have QR codes around classroom for open house
- Add to newsletters
- Enhance textbooks or pieces of literature
- Create a calendar of homework assignments

Where to Go for Ideas



Kathy Schrock's QR Codes in the Classroom

http://www.schrockguide.net/qr-codes-in-the-classroom.html





* #mobile2012 Day One Tweets | Main | Ways to Evaluate Educational Apps >

Learning in Hand #25: QR Codes

Thumday, Merch 22, 2012 at 1211AM

Learning in Hand Podcast Episode #25: QR Codes is all about those two-dimensional bar codes that are popping up everywhere. QR codes have lots of uses for education, especially in classrooms where students are equipped with mobile devices.

The video is fast paced. There are several QR codes you could scan during the video, but because of the pace, you will probably have to rewind and pause in order to scan.

View the 20 minute video on YouTube, on Vimeo, in iTunes, or download to see how QR codes can save time and and make classrooms a little more interactive and efficient.





twitter

tonyvincent

<u>Tony Vincent's</u> Learning in Hand – QR Codes

http://learninginhand.com/blog/learning-in-hand-25-qr-codes.html



Add QR codes to any/ all worksheets/ handouts.

QR Codes can be added to worksheets to allow students access to instructions/content/answers via their mobile devices.

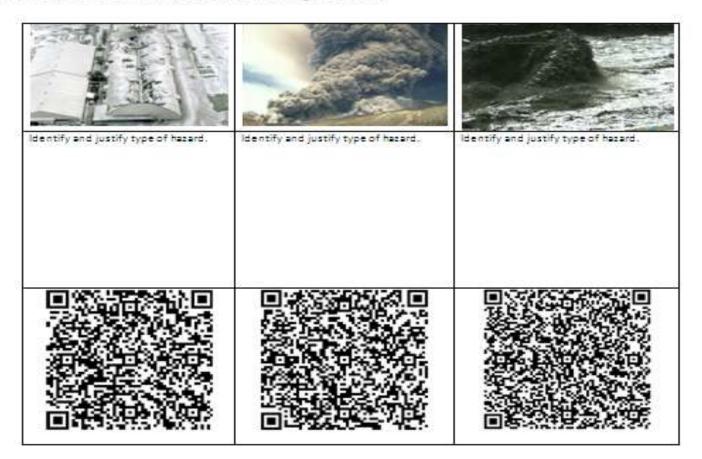


- Include QR Codes in class notes
- Scan for additional information on a subject.
- Teacher created content.

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Adding QR codes to Word documents for students to check their answers.

Identify the type of Volcanic Hazard. (Check your answers using the QR codes)



Laminate sheets and pin them up around the classroom

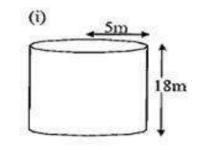
(Mark Rollins @muppetmasteruk

Futuristic Maths Worksheets

Create a maths worksheet that has QR Codes beside each problem.

Upon scanning the code a step by step tutorial is launched in Youtube explaining the process of solving the problem.

Students can use when they are stuck on a particular problem or to check their work.







QR CODES for Math

Add QR codes to math worksheets or workbooks. Link to videos that show how to solve the problems

Reduce each fraction to its lowest terms:

<u>35</u> 50 =	$\frac{14}{24} =$	<u>-18</u> =	<u>-8</u> =
$\frac{30}{35}$ =	$\frac{4}{40} =$	<u>6</u> 9 =	5 =
$\frac{3}{30} =$	$\frac{14}{18} =$	$\frac{4}{32} =$	$\frac{5}{35} =$
<u>10</u> =	$\frac{10}{35} =$	<u>2</u> =	$\frac{20}{24} =$
<u>44</u> 48 =	$\frac{4}{32} =$	$\frac{30}{35}$ =	$\frac{3}{6} =$

QR CODES for Math Make a math worksheet with QR codes. Scan each code to discover the problem or the solution.

Mystery Math QR Code Scan

Use the scan program to scan each code and find the math problem to solve. Write the problem on your recording sheet and solve the number sentence. Good Luck!













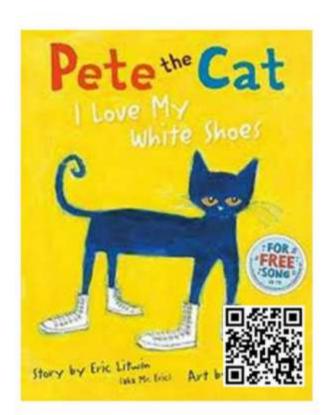
Make a data chart

Spain	7
South Africa	6
France	6
Turkey	5
Serbia	4
Ireland	17
Germany	9
Denmark	6

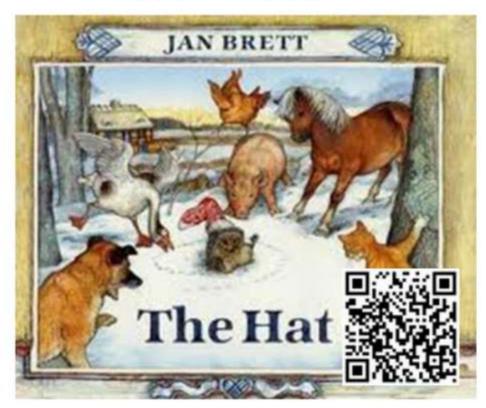


In Maths provide some data on a paper handout with a QR code for an online graphing tool like Create-a-Graph.

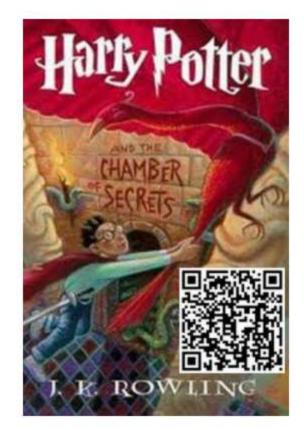
Put a QR Code on a book link to a video of the book, an online version of the book, or of an audio reading of the book. Non-readers or emerging readers can then read along.



Put a QR code on a book to link to the author's information or biography when doing author studies.



Put a QR code on a book that links to a book review. Students can make better informed decisions about choosing books to read.



Add QR codes to student work that is hanging in the hallway or going home to parents. The QR code can link to an audio recording of the student reading their story or writing.



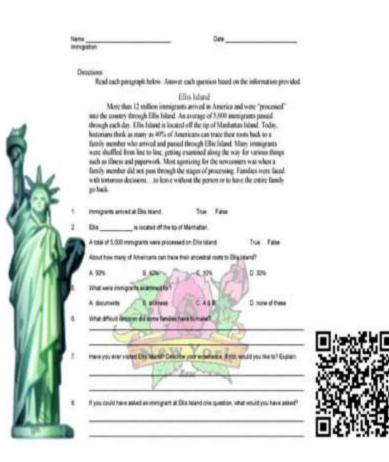
Put a QR code on non-fiction books to that students can learn more about a topic through audio files, video files, or web pages about the topic.



Place QR codes on everyday objects in your classroom. Link to audio files that pronounce and define the word in English or Spanish.



Add QR codes to worksheets or homework pages so that students can link to web resources that will help them to answer the questions.



Put QR codes in history books, textbooks, or worksheets to link students to videos or information to help them to better understand events, people, and places in history.

THE DAY IT RAINED MILITIA

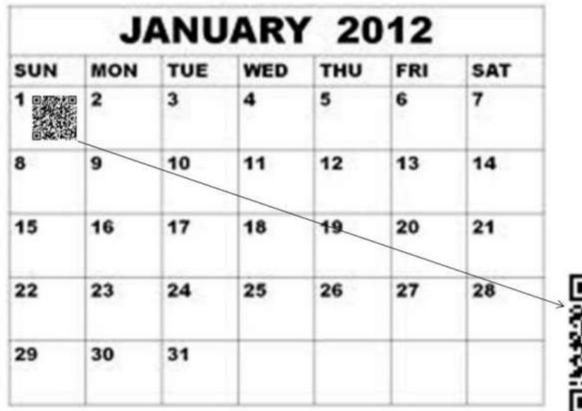
Huck's Defeat and the Revolution in the South Carolina Backcountry May–July 1780



Put QR codes on countries, landmarks, states or oceans on a map or globe. Link them to videos or webpages with more information about those places.



Put QR codes on a calendar to make an interactive "This Day in History" calendar.





Going on a field trip? Find out if the location has QR Codes. If not, create a QR handout that students can scan as they view certain exhibits. Make their field trip experience more interactive and informative.



QR CODES for Science

Put QR codes on models to link students to online activities, videos, or information to help them learn more about a topic.



QR CODES for Science

Put QR codes on a periodic table that links to videos or information about each element.

THE PERIODIC TABLE OF UIDEOS 28 影影 雅 瑞 縣 熊 輝 輝 **姚 疑 段 段 路 路 派 路 路 派 级 殊 派 派 派 派**

QR CODES for Science

Make an interactive guiz. Use QR codes with rock and mineral samples with information about the composition of the sample. Have students try to guess which rock/mineral it is and check with the QR code

What Am I?

I am very common mineral. I am found in many rocks. I have a vitreous, glassy luster.

I am important in the manufacturing industry for making gauges, oscillators, resonators and watches.





QR CODES for Art

Add QR to student's artwork. The QR code can link to text information about the student or the artwork created



QR CODES for Art

Add QR Codes to student's artwork with a link to a video or audio file with the student explaining more about the art they created.



QR CODES for The Classroom

Put QR codes on classroom doors or windows. The QR codes could lead to teacher websites, blogs, or video about the teacher. Students can scan to have instant access to homework calendar or missed assignments. Parents can scan when visiting to learn more about the teacher.



QR CODES for The Classroom

Place QR Codes around the school or classroom for a QR scavenger hunt. Students can scan the codes to get questions, clues, or directions. This can be adapted for any subject, review session, or event.



QR CODES for The School

Put QR codes around the school to create a virtual tour for your visitors. Allow visitors to check out a device from the office if they don't have their own. As they go around the school they will scan the QR codes to learn about the various parts of the school.



The Newsletter with QR Code links

Recently I wanted to pass on lot of links to convey what the children were learning.

Even with them all shortened it would have been tricky for parents to type.

So I made a QR code for my website and let the parents see the links on their phones.



Glenn Malcolm @glennmalcolm

QR CODES FOR SCHOOL NEWSLETTERS AND GOOGLE CHROME WEB APP STORE FOR SCHOOLS AND EDUCATORS

WEDNESDAY, JANUARY 12, 2011 AT 11:36AM

🖌 modify remove organize post follow up

Tis post is from the most recent newsletter sent out to teachers at my school, The Taipei European School.

You might be here from the QR code in the newsletter - if you are then great! If not then why not check out the links below to see how the QR code can help you out.

A QR code is a type of bar code without the bars. Instead they are squares and allow text and other data to be interpreted where a object needs to access digital data. Google Goggles (Android), Pic2shop, Red Laser (iPhone) or Shopsawy (both) are good applications to use to access other QR codes and bar codes on packaging. The bar codes can then give a slew of information appearing on your phone's browser.

QR Codes to promote other school events

1. Create QR code that will go to a URL promoting a school event.

2. Create a web page to promote that event. I made one for my high school book club to promote good book recommendations for Teen Read Week.

3. Print small notes with the title: *What's happening in school this week??? Scan this code with your mobile device to find out!* and tape them in the bathroom stalls, mirrors, or areas where mobile devices are allowed at your school.



Easter Egg Scavenger

Create an "easter egg/scavenger hunt". The students must seek out the QR codes that are posted in a given area. Use the codes to go to information to answer a question and/or find a clue. Then on to finding the code.





Added by <a>@hamtra

Make Displays Interactive

Add QR Codes to classroom displays to enrich and make interactive by linking to:

- videos of how the display was made (e.g. making stuff in technology);
- Blogposts on pupils' commentaries on their artwork, poems, writing;
- Further information about the country, period in history, person etc;
- A Google Form for feedback.

Link directly into Google Maps

Some QR readers, such as <u>QR Scanner</u> for iPhone, have a *View on Map* option after scanning.

With this in mind, you can create a QR code for the name of a place (Tour Eiffel) or its coordinates to be more specific (48.8583, 2.2945 - find this by clicking on the coordinates in Wikipedia) and it will link students directly to that location in Google Maps.





Create vCard with contact information

Rather than copying down someone's information, just scan their QR code to see their contact information.

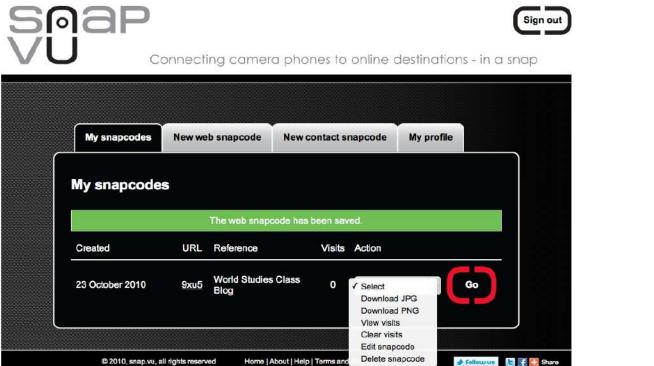
- Contact information during open house
- Contact information on syllabus
- On the back of your cell phone



Video / Resource of the Day

By using Snap.vu, the content embedded in a QR Code can be changed and managed at any time.

One QR Code posted at the front of the room, in a student's notebook or in a textbook can be managed to point at any content: website, video, audio, document...



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