



Interactive Whiteboards WORKBOOK



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How To Find This Workbook Inside The Member's Area

View the lessons associated with this workbook by searching for "**Interactive Whiteboards**" inside the learning portal.

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Workbook - Integrating Interactive Whiteboards in the Classroom

Overview:

The following lessons and objectives were covered in this course. Feel free to go back and review some or all of them, if necessary:

1. Conduct Virtual Field Trips

- Introduces virtual field trips.
- Shows some ways you can use virtual field trips in your classroom.
- Lists resources and Web sites where you can learn more about virtual field trips.

2. Engage Students in Interactive Whiteboard Activities

- Shows the importance of interactive whiteboards as a teaching tool.
- Offers ideas for using the technology in your classroom.
- Explains how interactive whiteboards can be used with other technology tools.

3. Integrate Interactive Whiteboards in Elementary Education

- Introduces interactive whiteboards.
- Provides some content resources to use with interactive whiteboards.
- Gives some suggestions for how to use interactive whiteboards in your elementary classroom.

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4. Integrate Interactive Whiteboards in English

- Introduces some content specific resources for English teachers to use with interactive whiteboards.
- Gives some suggestions for how you can use interactive whiteboards in an English classroom.

5. Integrate Interactive Whiteboards in Math

- Describes how to use interactive whiteboards in the mathematical discipline.
- Gives specific, usable, real-life examples for math teachers to use in the classroom.

6. Integrate Interactive Whiteboards in Science

- Describes how interactive whiteboards can be used to make science lessons more engaging.
- Explains using interactive whiteboard features for concept reinforcement.
- Gives ideas for engaging students through the use of the interactive whiteboard.

7. Integrate Interactive Whiteboards in Social Studies

- Describes how to use interactive whiteboards in secondary-level social studies classes.
- Gives specific, usable, real-life examples for teachers.

8. Integrate Interactive Whiteboards in Fine Arts

- Describes how to use interactive whiteboards in secondary-level fine arts classes.

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- Gives specific, usable, real-life examples for teachers.

Real-life Examples:

Here are some real-life examples of how the concepts discussed in this course could be used in a classroom, either as a teaching tool or an administrative aid:

1. Take a Virtual Tour of the Planets

A trip to the planetarium is a great way to spark students' interest in the solar system. Instead of visiting the planetarium, why not break students up into groups and ask them to go through a virtual field trip that introduces them to the planets and constellations? Ask each group to use the information they learned as a starting point for researching more about one of the planets or constellations in order to create a presentation that they will share with the class.

2. Build Virtual Field Trips

More than likely, your students are already experts at searching for information on the Web. Why not have students use those skills by asking them to create their own virtual field trip on a specific content-related topic? When they're done, you can link together all of the students projects to make one virtual field trip to cover all of the information related to their topic.

3. Explore the World of Art

Being exposed to paintings and sculptures from different time periods is a main component of any art class. Have students take a virtual field trip to a museum in another country to explore collections of art from different periods. Ask students to explore the artwork of a single period more thoroughly and to use what they learned to create their own painting in that style!

4. Medical Anomalies

Students could watch a documentary on a separation of conjoined twins, and could then see how this surgery ties in with lessons they have had about anatomy. You can show illustrations of the different types of conjoined twins, and use the interactive whiteboard to point out the shared organs, and where it's best to separate them.

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5. Learn from the Past

Use last year's examples of student-created PowerPoint presentations to help students come up with ideas on how to best present information about the Civil War. Compare exemplary samples with ones that are lacking depth and have students give suggestions about how to make improvements.

6. Peer Assessment in Math

Present students with fractions and have them create multiple-choice questions that test the understanding of other students in the class. Then have volunteers come up to the whiteboard to choose the correct answers. Save the questions for future review.

7. Write Stories with the Class

Pick a topic you are currently covering in class. Have students break up into small groups and brainstorm potential ideas for a story about the topic. Bring the class back together and fill in a story map using the drawing tools on an interactive whiteboard with the ideas each student group shares.

8. Share Subject Resources

Ask students to find and select one Web site on a pre-selected topic. Then have students do a small presentation on the interactive whiteboard to navigate the content of the Web site for the class. Encourage students to include justifications in their presentations for why they selected the specific Web site to share with the class.

9. Make Custom Activities

Experiment with using productivity tools like PowerPoint and Word to create interactive activities for your class. By exploring your skills for making interactive whiteboard activities, you can create experiences for students that are customized for their needs.

10. Exploring the Lives of Literary Greats

Even wonder what inspired writers like Hemingway and F. Scott Fitzgerald? Use the interactive whiteboard to take students on an interactive Web tour of the birthplaces and homes of literary greats. Then use the activity as a starting point to discuss how students can draw from their everyday experiences to come up with a great idea for a story.

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11. English Games

There are many great resources on the Internet to find games for any content area, including English. Do a search and find two or three games that you can integrate into some of your upcoming lessons. You can even try using PowerPoint to create your own Jeopardy! or quiz show type game.

12. Write Poetry

Pick a genre of poetry, and begin the lesson by introducing students to the stylistic requirements of it. Then write a single sentence on the board that will serve as a start to a poem and ask students to work in groups to complete the poem using a word processing program. At the end of the lesson, project each groups' poem onto the board and have them describe how they developed it to the entire class.

13. Arrays and Multiplying

Have students collaborate in small groups and develop four arrays per group and a multiplication function that represents each array. Tell them to make three sets of these that are correct and one that is not. Have each group draw their arrays on the whiteboard and then write the functions that match them. Then, have the other groups determine which one of the four is incorrect.

14. Adding Integers

Create several positive and negative counters on your board. Group counters by one positive and negative. Explain to the students that these pairs are called additive inverses and that each one equals zero. Then, just count what is left over for the answer. Have the students create their own equations. Collect them, and then pass them back to students randomly. Call them to the board to show, with counters, how to find the solution.

15. Linear Equations

Have students work in groups to create a graph for a linear equation, its function, and three incorrect functions. Have each group display their work on the interactive whiteboard, using the Cartesian Coordinate Grid as a background. Then, take a vote as to which function the rest of the students think is the one that correlates to the graph. This can spawn some great

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discussions about misconceptions and allow you to diagnose any misunderstandings.

16. **Creating Classy Classification**

When teaching students about classification (Kingdom, Phylum, Class, Order, Family, Genus and Species) create "flip chart" type slides in PowerPoint that you can project onto your interactive whiteboard. Students can then directly classify living things right on the whiteboard.

17. **Envisioning Endothermic or Exothermic Reactions**

When preparing for a chemistry lesson, create a pretest to use on your interactive whiteboard. Students can quickly take turns sorting chemical reactions into endothermic or exothermic reactions.

18. **ZAP It!**

While studying electricity and circuitry, have students build complete circuits on the interactive whiteboard. Include graphics of all the items they will need, (batteries, bulb, wires, etc.) and then have students arrange a complete circuit by dragging and dropping. The arrow tool can be used to label each item. You can make this as easy or as complicated as you like.

19. **Track Movement Across America**

Display and discuss population density maps that show where and why people settled during a westward expansion unit. Have students use the whiteboard to trace movement across the U.S. with a digital pen, fingers, or a hand, indicating important places on the map. Save and print these out for unit review.

20. **Explore Tectonics and Volcanoes Using Animation and Video**

Often, it's difficult for students to visualize certain geographic concepts. Displaying animations and videos on a whiteboard can help make these concepts more real for students. For example, you could show animations that demonstrate how plate tectonics led to the formation of volcanoes around the Ring of Fire. These could be followed up with actual footage of erupting volcanoes.

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21. **Have Groups Create Multimedia Presentations**

For a humanities or history unit, assign a collaborative project about a particular era. For example, for a unit on the Great Depression, have groups of students create presentations on the whiteboard that include various multimedia elements that depict the era, such as photos taken by Dorothea Lange, short readings from Steinbeck's novels, and images of historical documents.

22. **Welcome to Our Student Art Gallery!**

Have your students organize their best artwork as a portfolio by scanning and saving it in a file. Students can title each piece of work and add critical comments. Use it to create an online gallery on the whiteboard. If desired, make the gallery interactive to provide additional information. Display the presentation during Open House or Parents' Night, or put it on a kiosk in the main office.

23. **Enhance Musical Compositions**

Have students individually or in groups create their own musical compositions and then find slides, photos, drawings, or stories to accompany the music. Have the students create a multimedia presentation that combines their musical talents with these other elements and then present it to the class on the interactive whiteboard.

24. **Create a Collaborative Play**

As part of a group or multi-class assignment, have students collaborate on writing a play, with each group or class being given a different scene or act. Have the script for each scene displayed on the whiteboard while the various groups act it out in class. During these rehearsals, have the students critique and revise the script using the whiteboard. Once the scripts have been perfected, record the students performing each piece, and then show the entire play on the interactive whiteboard.

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Exercises:

If you would like additional practice or review of the concepts covered in this course, try the following exercise(s) at your convenience:

1. Can you think of a field trip you may have wanted to sponsor in the past, but the costs or logistics of it made it impossible? Try to build it as a virtual field trip using Web resources and incorporating them into an interactive presentation you can show on your interactive whiteboard.
2. Look for resources on the Internet that contain interactive presentations for science. For instance, look for games or video clips of science principles in action. When you find ones you can use, bookmark them and then try to incorporate them the next time you teach the associated content.

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Additional Resources

The following are links and resources covered in the webinar, “Interactive Sites for Your Interactive Whiteboard Webinar” by Kimberly Warrner. Teacher Learning Community members can access this webinar recording inside the Community.

Social Studies



- Grand Canyon Archeology Virtual Tour
 - <http://www.nps.gov/features/grca/001/archeology/index.html>
- Place the State
 - http://bensguide.gpo.gov/flash/states_puzzle_names2.html

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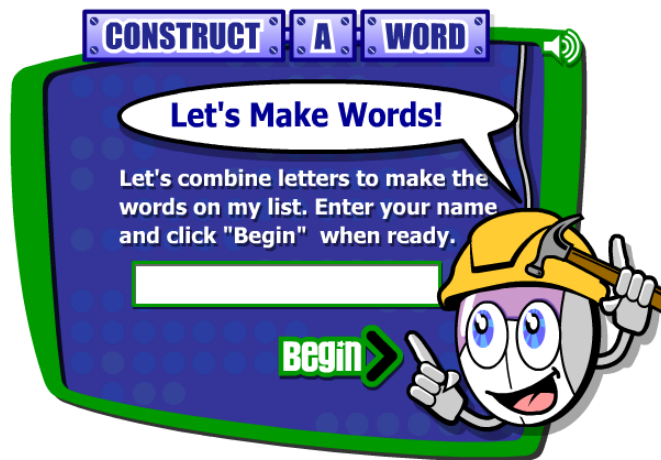


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English



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NCEC
A member of the Pearson Education


- Games on spelling, prefixes, suffixes, synonyms, mnemonics, and more.
 - <http://www.woodlands-junior.kent.sch.uk/interactive/literacy.html#12>



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Science




- Life-size Blue Whale
 - http://www.wdcs.co.uk/media/flash/whale_banner/content_pub_en.html
- Interactive Periodic Table
 - <http://www.ptable.com/>

	1	2	3	4	5	6
	1 H Hydrogen 1.00794	Atomic # Symbol Name Atomic Weight	23 V Vanadium 50.9415		2 8 11 2	
2	3 Li Lithium 6.941	4 Be Beryllium 9.012182				Alkali metal
3	11 Na Sodium 22.98976...	12 Mg Magnesium 24.305				
4	19 K Potassium 39.0983	20 Ca Calcium 40.078	21 Sc Scandium 44.955912	22 Ti Titanium 47.867	23 V Vanadium 50.9415	24 Cr Chromium 51.9961
5	37 Rb Rubidium 85.4678	38 Sr Strontium 87.62	39 Y Yttrium 88.90585	40 Zr Zirconium 91.224	41 Nb Niobium 92.90638	42 Mo Molybdenum 95.96
6	55 Cs Caesium 132.9054	56 Ba Barium 137.327	57-71	72 Hf Hafnium 178.49	73 Ta Tantalum 180.94788	74 W Tungsten 183.84

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Basic Math



- Ghost Blasters
 - <http://www.oswego.org/ocsd-web/games/Ghostbusters1/gbcd.html>
- Christmas Lights
 - http://www.abcya.com/christmas_lights_holiday_game_for_kids.htm



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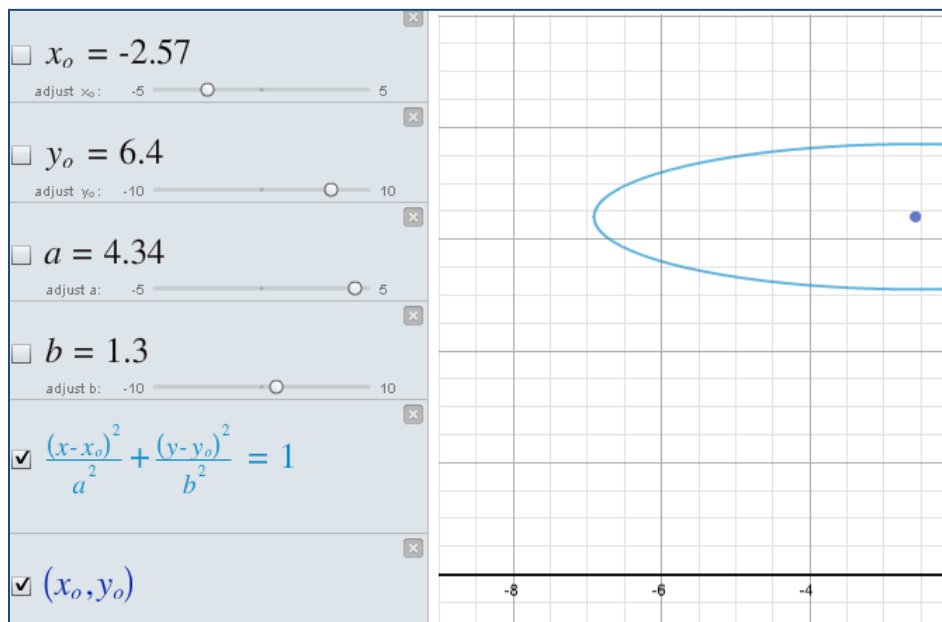


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Advanced Math



- Graphing Calculator
 - <https://www.desmos.com/calculator/>

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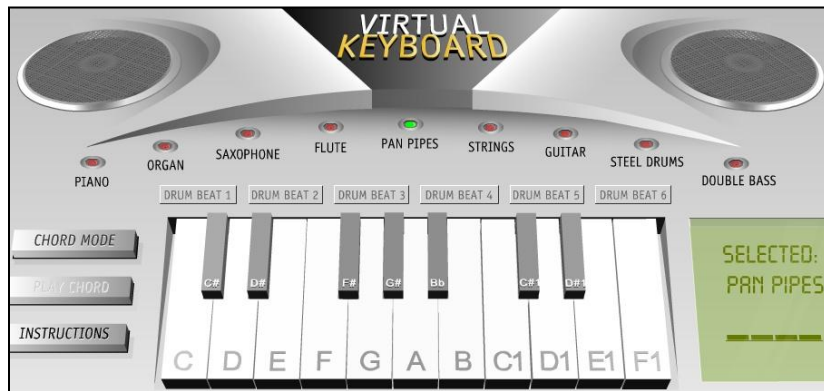


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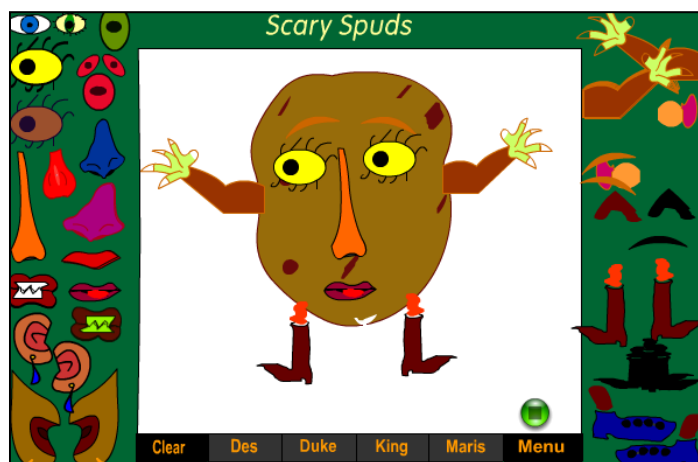
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Fine Arts



- The Virtual Keyboard
 - http://www.bgfl.org/bgfl/custom/resources_ftp/client_ftp/ks2/music/piano/
- Scary Spuds
 - <http://www.crickweb.co.uk/Early-Years.html>



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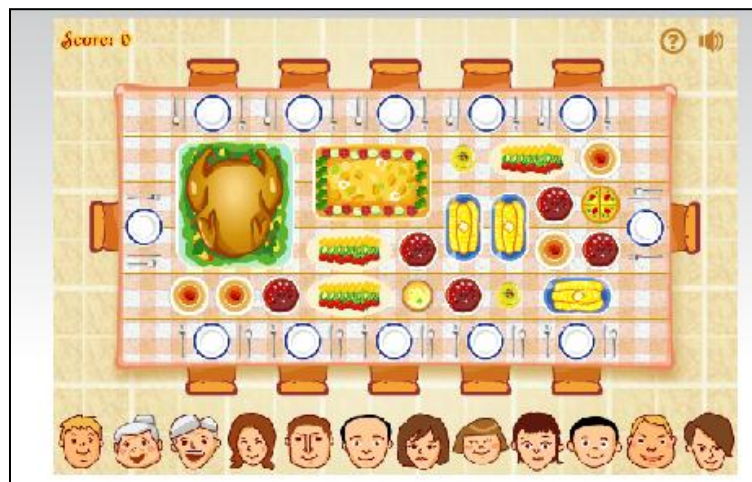
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Just for Fun – Holiday



- Pumpkin Carving
 - http://www.abcya.com/pumpkin_carving.htm
- Seating Challenge
 - http://www.abcya.com/thanksgiving_game_for_kids.htm



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Interactive Whiteboard Toolkit



=> Workbooks with real-life examples and exercises
=> 3 Courses containing 18 Lessons

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