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## MultiMice in Education

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### Summary

Using multiple mice on one computer is a relatively new idea, yet a simple and cost effective one. From a small group of children gathered around a music game after school in a developing country, to a teacher in the United States who embeds questions in her PowerPoint presentations, this technology has the potential for widespread use and misuse. Understanding how to apply it effectively is challenging. Software must be developed and chosen carefully, keeping in mind both the learning goals and the social interaction that the program facilitates.

### Resources

- Try out the games yourself:
  - <http://www.microsoft.com/multipoint/mouse-sdk/showcase.aspx>
- Download the Microsoft PowerPoint extension:
  - <http://www.microsoft.com/multipoint/mouse-mischief/default.aspx>
- Download the Microsoft MultiPoint Mouse Software Development Kit (SDK):
  - <http://www.microsoft.com/multipoint/mouse-sdk/default.aspx>

### References

“Amazing Concert Play” by AmazingEdu. Retrieved from  
<http://www.amazingedu.com/amazingconcert/>

Infante, C., Weitz, J., Reyes, T., Nussbaum, M., Gómez, F., & Radovic, D. (2010). Co-located collaborative learning video game with single display groupware. *Interactive Learning Environments*, 18(2), 177-195. Retrieved from  
<http://dx.doi.org/10.1080/10494820802489339>

Microsoft. (2010). *Microsoft Mouse Mischief*. Retrieved from  
<http://www.microsoft.com/multipoint/mouse-mischief/lessons.aspx>

Microsoft. (2010). *Top ten tips for using Microsoft Mouse Mischief*. Retrieved from  
[http://download.microsoft.com/download/7/6/5/7658AF74-192E-42C4-A1E7-197A6E9D84A5/Top\\_Ten\\_Tips\\_Mouse\\_Mischief\\_En-US.pdf](http://download.microsoft.com/download/7/6/5/7658AF74-192E-42C4-A1E7-197A6E9D84A5/Top_Ten_Tips_Mouse_Mischief_En-US.pdf)

“MultiMath in action.” by sunilgarg - CC:2.0G-NC-SA. Retrieved from  
<http://www.flickr.com/photos/sunilonln/3503838712/>

Pawar, U., Pal, J., & Toyama, K. (2006). *Multiple mice for computers in education in developing countries*. Retrieved from  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=04085516>

Stanton, D., & Neale, H. R. (2003). The effects of multiple mice on children’s talk and interaction. *Journal of Computer Assisted Learning*, 19(2), 229-238.

## Complete References

- “Amazing Concert Play” by AmazingEdu. Retrieved from <http://www.amazingedu.com/amazingconcert/>
- “Aprender” by MHV - CC:3.0-SA. Retrieved from <http://wikimediafoundation.org/wiki/File:Aprender.JPG>
- “Bun Scrambling Competition 2010” by Tksteven - CC:3.0U-SA. Retrieved from [http://wikimediafoundation.org/wiki/File:Bun\\_Scrambling\\_Competition\\_2010.JPG](http://wikimediafoundation.org/wiki/File:Bun_Scrambling_Competition_2010.JPG)
- “Catalan Climbers” by Steve Jurvetson - CC:2.0G. Retrieved from [http://wikimediafoundation.org/wiki/File:Catalan\\_Climbers.jpg](http://wikimediafoundation.org/wiki/File:Catalan_Climbers.jpg)
- “Eyes Wide” by sunilgarg - CC:2.0G-NC-SA. Retrieved from <http://www.flickr.com/photos/sunilonln/3503027923/in/photostream/>
- Infante, C., Weitz, J., Reyes, T., Nussbaum, M., Gómez, F., & Radovic, D. (2010). Co-located collaborative learning video game with single display groupware. *Interactive Learning Environments*, 18(2), 177-195. Retrieved from <http://dx.doi.org/10.1080/10494820802489339>
- “Keypads” by sunilgarg - CC:2.0G-NC-SA. Retrieved from <http://www.flickr.com/photos/sunilonln/3503837728/>
- “Lightmatter Lab Mice” by Aaron Logan - CC:1.0G. Retrieved from [http://upload.wikimedia.org/wikipedia/commons/7/77/Lightmatter\\_lab\\_mice.jpg](http://upload.wikimedia.org/wikipedia/commons/7/77/Lightmatter_lab_mice.jpg)
- “Mouth Stick” by cobalt123 - CC:2.0G-NC-SA. Retrieved from <http://www.flickr.com/photos/cobalt/2461803744/>
- Microsoft. (2010). *Microsoft Mouse Mischief*. Retrieved from <http://www.microsoft.com/multipoint/mouse-mischief/lessons.aspx>
- Microsoft. (2010). *Top ten tips for using Microsoft Mouse Mischief*. Retrieved from [http://download.microsoft.com/download/7/6/5/7658AF74-192E-42C4-A1E7-197A6E9D84A5/Top\\_Ten\\_Tips\\_Mouse\\_Mischief\\_En-US.pdf](http://download.microsoft.com/download/7/6/5/7658AF74-192E-42C4-A1E7-197A6E9D84A5/Top_Ten_Tips_Mouse_Mischief_En-US.pdf)
- “MRI Brain” by NASA – Public Domain. Retrieved from [http://wikimediafoundation.org/wiki/File:MRI\\_brain.jpg](http://wikimediafoundation.org/wiki/File:MRI_brain.jpg)
- “MultiMath in action.” by sunilgarg - CC:2.0G-NC-SA. Retrieved from <http://www.flickr.com/photos/sunilonln/3503838712/>
- Pawar, U., Pal, J., & Toyama, K. (2006). *Multiple mice for computers in education in developing countries*. Retrieved from <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=04085516>
- “Olympische Sp. 1904” by Unknown - Copyright Expired. Retrieved from [http://wikimediafoundation.org/wiki/File:Olympische\\_Sp.\\_1904.jpg](http://wikimediafoundation.org/wiki/File:Olympische_Sp._1904.jpg)
- Stanton, D., & Neale, H. R. (2003). The effects of multiple mice on children’s talk and interaction. *Journal of Computer Assisted Learning*, 19(2), 229-238.
- “TiddlyWiki in a JAWS Screen Reader” by psd - CC:2.0G. Retrieved from <http://www.flickr.com/photos/psd/4476722372/>
- “Varios ratones” by emijrp - GNU:FDL. Retrieved from [http://commons.wikimedia.org/wiki/File:Varios\\_ratones.jpg](http://commons.wikimedia.org/wiki/File:Varios_ratones.jpg)
- “Web 2.0 Map” by Markus Angermeier and Luca Cremonini - CC:2.5G-SA. Retrieved from [http://wikimediafoundation.org/wiki/File:Web\\_2.0\\_Map.svg](http://wikimediafoundation.org/wiki/File:Web_2.0_Map.svg)
- “XO-Beta1\_mikemcgregor-2” by Mike McGregor - CC:2.5G. Retrieved from <http://commons.wikimedia.org/wiki/File:XO-Beta1-mikemcgregor-2.jpg>