**Lesson Plan Incorporating SMART Board Technology**

**“The Nutcracker”**

1. SMARTboard – what is it?
   1. An interactive whiteboard that uses touch detection for user input in the same way as normal PC input devices.
   2. Founded in 1987 by David Martin in Canada
2. Technology
   1. Interactive whiteboard
   2. Computer
   3. Projector
   4. Whiteboarding software
      1. Smart Notebook
      2. Smart Meeting Pro
3. Tools
   1. Pens
      1. Red
      2. Blue
      3. Green
      4. Black
   2. Eraser
   3. Human hands
   4. Keyboard
      1. Computer
      2. SMARTboard
4. Uses and Features – (User’s Guide Windows Version Canada 06-2003)
   1. Create and edit a wide variety of annotation objects with the pen tray styluses, floating tools or Notebook software
   2. Capture an image of the annotations you make over other applications into Notebook software
   3. Use SMART Recorder to create a video file of everything you do on the interactive whiteboard, no matter which application you’re using
   4. Use SMART Video Player to annotate over moving or still video from sources such as VCRs, document cameras and computer files
   5. Save or print a complete copy of everything written, drawn or typed in Notebook software
   6. Export your Notebook file as a PDF file, HTML file or a series of image files that others can view
   7. Use an on-screen keyboard to enter text without a conventional, physical keyboard
   8. Use the handwriting recognition feature to convert handwritten text into typewritten text
   9. Import information from almost any electronic source into Notebook software
   10. Use touch shortcuts to get through your Microsoft Power Point presentations
5. Resources for SMARTboard use
   1. PDFs for download and printing
      1. User’s Guide - <http://instructech.usi.edu/smartboardguide.pdf>
      2. SMART Board Interactive Whiteboard Basic Functionality - <http://downloads01.smarttech.com/media/trainingcenter/smart_board_interactive_whiteboard_basic_functionality.pdf>
      3. SMART Notebook Software Learner Resource - <http://downloads01.smarttech.com/media/trainingcenter/nb_basics_learning_resource.pdf>
   2. Online Tutorials
      1. Complete SMART Board Tutorial - <https://www.youtube.com/watch?v=dwla8E6jz4g>
      2. SMART Boards Why are they so easy to use? - <https://www.youtube.com/watch?v=0U05WeXPGlk>
6. Teaching Resources, Lessons, Lesson Plans
   1. SMART Exchange
   2. Online
   3. Create your own

**SMART Board and Tchaikovsky’s “Nutcracker”**

**Grades K-6**

**Performance – December, 2015**

**Youth Musical based on Tchaikovsky’s “Nutcracker”**

During this unit, students will:

* Learn about periods in music history
* Learn about culture, in particular Russian culture
* Read assorted music notation
* Perform notation by clapping or playing and singing
* Identify AABA form and briefly discuss and explore other forms
* Identify a couple of composers from each period in music history
* Learn about various instruments of each period in music history
* Identify sounds of common musical instruments and respond to them
* View images of famous works of art and architecture of each period in music history
* Learn about two dance styles – ballet and Russian folk dance
* Listen to and react to recordings of Russian music from each period in music history
* Listen to the story of the Nutcracker as it is read to them
* Learn to sing, speak and dance to the songs contained in the musical arrangement

SOUTH DAKOTA Music Standards Met During this Unit:

* Standard One: Performing
  + Students will use the performance of music as a means for creative expression and communication
* Standard Three: Reading
  + Students will read and notate music
* Standard Four: Listening
  + Students will listen to, analyze, and evaluate music
* Standard Five: Understanding Relationships
  + Students will understand music’s relationship to society, the other arts, disciplines outside the arts, history, and culture

Resources, SMART board lessons and videos to be used:

* NUTCRACKER – A Youth Musical – script and lyrics by Mary Kay Beall; music arranged by Ruth Artman; orchestrated by Bob Lowden – Hal Leonard
* “The Nutcracker” by Susan Jeffers; 2007
* “The Nutcracker and the Mouse King” by E.T.A. Hoffman; 2012
* SMART Board Lessons
  + “Whacky March Nutcracker Notation” - <http://exchange.smarttech.com/details?id=09899fa5-5e29-40bb-a275-93bb4688fbfe>
    - Read assorted notation
    - Perform notation by clapping or playing the rhythms with instruments
    - Identify AABA form
  + “Tchaikovsky and The Nutcracker” - <http://exchange.smarttech.com/details?id=f5cf590a-91ba-4167-8498-4d6eabaefba6>
    - Music history and culture
    - Recognize the development of music from an historical and cultural perspective
  + “Brief Music History Overview: Baroque to Present: - <http://exchange.smarttech.com/details.html?id=d744c314-dd95-45bd-8203-bc0a1af839e8>
  + “Music History Overview: Medieval to Modern” - <http://exchange.smarttech.com/details.html?id=b83877a9-6867-4ab7-9201-0fd7cb51256d>
    - Facts
    - Composers and biographies
    - Art and architecture of the periods
    - Instruments of the periods
  + “The Nutcracker Suite SMARTboard Lesson” - <https://www.teacherspayteachers.com/Product/The-Nutcracker-Suite-SMART-Board-Lesson-1011112>
    - Form and movement
    - Rhythm activities
    - High and low sounds
    - Identify instruments heard while listening
    - About ballet
    - Bio of Tchaikovsky
    - Website links to youtube of the different ballet performances of each piece
  + “The Sabre Dance” - <http://exchange.smarttech.com/details.html?id=3a7176c8-a64d-4d04-928b-c20afb839186>
    - Khachaturian composer history
    - History of sabre dance
    - Form of the sabre dance
    - Identify instruments and do specific actions
    - Videos to watch
* Additional videos for viewing and listening
  + “Pictures at an Exhibition” by Mussorgsky - <https://www.youtube.com/watch?v=DXy50exHjes>
  + “The Flight of the Bumblebee” by Rimsky-Korsakov - <https://www.youtube.com/watch?v=aYAJopwEYv8>
  + “Peter and the Wolf” by Prokofiev - <https://www.youtube.com/watch?v=9ueGfjBKbiE>
  + “1812 Overture” by Tchaikovsky - <https://www.youtube.com/watch?v=VbxgYlcNxE8>
  + “Swan Lake” by Tchaikovsky - <https://www.youtube.com/watch?v=9rJoB7y6Ncs>