Product registration

If you register your SMART product, we'll notify you of new features and software upgrades.

Register online at www.smarttech.com/registration.

Keep the following information available in case you need to contact SMART Technical Support.

Serial Number: ___________________________________________________

Date of Purchase: _________________________________________________

FCC Warning
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer’s instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Patent No. US6141000; US6326954; USS6741267; US7151533; US7499033; CA2058219; and CA2252302. Other patents pending.

03/2011
Important information

WARNING

• Failure to follow the installation instructions shipped with your SMART Table™ could result in personal injury and product damage.

• Ensure that any cables extending across the floor to your SMART Table are properly bundled and marked to prevent a tripping hazard.

• Make sure an electrical socket is near your SMART Table and remains easily accessible during use.

• Lock the casters before allowing children to use your SMART Table.

• Do not climb (or allow children to climb) on your SMART Table. Climbing on your SMART Table could result in personal injury and product damage.

• To reduce the risk of fire or electric shock, do not expose your SMART Table to rain or moisture.

• Use caution when servicing your SMART Table’s internal parts even after you disconnect the power. The uninterruptible power supply (UPS) continues to provide dangerous voltages to the computer and projector after you disconnect the AC power source.

• Do not stare (or allow children to stare) directly into the projector’s beam of light.

• Do not attempt to service the projector other than performing routine lamp replacement. Only an authorized service provider should provide service. Aside from the lamp module, there are no user serviceable parts inside the unit.

• Do not remove any screws other than those specified in the lamp replacement instructions.

• Do not touch or replace the projector lamp (which will be very hot) for at least an hour after shutdown. Touching the lamp can cause severe burns.

• Do not puncture, crush, heat or disassemble the remote control battery, expose it to fire or any liquid, short its terminals, or abuse the battery in any other way because this may cause the battery to explode or ignite, and could cause a fire or personal injury.
• If the remote control battery leaks, ensure that you do not get battery fluid in your eye. If you do, immediately rinse the affected eye with water and seek medical attention.

• Do not install the remote control battery backwards or reverse its polarity. Do not install battery types other than the one specified in the documentation. Both of these actions can cause damage to the remote control and can cause a fire or personal injury.

⚠️ CAUTION

• Disconnect the power cable only after you turn off the table as documented in this guide and the indicator lights and fans turn off. Disconnecting the power cable at any other time can cause shorten the life of the projector lamp.

• Do not place cords, boxes or other items on the surface of your SMART Table. Doing so can scratch the surface.

• If your SMART Table becomes wet, dry it completely before turning it on.

• SMART Technologies recommends that you use the remote control to complete only the procedures documented in this guide. Using the remote control for other purposes may change the projector’s settings, which were specifically configured for the SMART Table.

⚠️ IMPORTANT

• Do not operate your SMART Table’s projector in environments that are higher than 10,000’ (3000 m) above sea level.

• Your SMART Table is sensitive to infrared light. Therefore, turn off or remove any pot lights or other incandescent lighting in the room and close any open blinds or curtains before calibrating your SMART Table.

• Your SMART Table’s surface does not respond to touch until the computer completes its startup process. Therefore, wait 30 to 60 seconds after turning on your SMART Table before touching the surface.

• Before you clean your SMART Table, turn it off so that you do not inadvertently start applications when you wipe the surface.

• Do not place keyboards, mouse devices or other objects on the touch surface. The camera may interpret these objects as touches if they are placed on the touch surface.

• This product contains lithium button cell batteries in the computer and the remote control (perchlorate material—special handling may apply).
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Chapter 1
Overview

This guide is intended for teachers and application developers. It introduces you to SMART Table software and explains how to use and customize the software after initial setup.

**NOTE**
For information on setting up your SMART Table interactive learning center or its accessories, see the *SMART Table 230i Installation Guide*, smarttech.com/kb/141081.

In this chapter
- About your SMART Table on page 1
- How your SMART Table software works on page 2
- Navigating SMART Table activities on page 3
- Initial setup using Teacher mode on page 3
- About applications on page 6
- Selecting an application or activity pack on page 10

About your SMART Table
Your SMART Table interactive learning center has a touch-sensitive surface. By touching the surface, students can create, select, move and resize digital objects. More than one student can touch the surface at a time. This encourages collaboration and cooperation as students learn and play together.

Using the Wi-Fi® network connection to a SMART Sync™ Teacher computer, teachers can observe their students’ activities from a distance, take control of the table, and capture and print the tabletop image.
SMART Table software includes interactive applications, learning activities and educational games. You can customize the activities using the SMART Table Toolkit. Install and run the toolkit on your computer and then transfer your changes to the table using the included USB bracelet or SMART Sync software.

**NOTE**
SMART Sync software is included with your SMART Table Toolkit. Other versions of SMART Sync software may not be compatible with the toolkit. For more information on your SMART Sync software contact technical support smarttech.com/contactsupport.

You can use your SMART Table with other SMART products as part of an overall learning solution. For example, you can introduce a new concept to students on a SMART Board™ interactive whiteboard, and then ask the students to explore the idea in detail using the SMART Table interactive learning center.

### How your SMART Table software works

The computer runs SMART Table software, the projector projects the computer’s display onto the surface, the speakers play the computer’s audio and the camera detects students’ touch on the surface. Combined, these components enable students to interact with SMART Table software.

**The USB bracelet**
The USB bracelet contains the SMART Table Toolkit as well as user guides, which you can view with Adobe® Reader®. Use the bracelet to install the software when you first set up your SMART Table and to do the following:

- Install SMART Table Toolkit on a Windows® or Mac computer
- Install new activity packs and applications on your SMART Table
- Update your SMART Table software

**NOTE**
The USB bracelet has a storage capacity of 2 GB (preloaded software takes up approximately half of this storage capacity).

If you lose your SMART USB bracelet, order a new one from your reseller, or you can use another USB drive to transfer files to the table.
Navigating SMART Table activities

SMART Table Activities is your SMART Table’s primary software. It starts automatically when you turn on your table.

The *SMART Table Activities* menu has two modes:

- **Student** mode is the default mode. It enables students to start applications specifically designed for children in early primary grades.

- **Teacher** mode appears when you connect the USB bracelet or any USB drive to one of the USB receptacles located on the outside of your SMART Table. This mode enables you to set the number of students, orient the surface, synchronize and choose activity packs and applications, and complete other configuration tasks as documented in this guide.

**Initial setup using Teacher mode**

In Teacher mode, you can orient your SMART Table, select the language that Teacher and Student mode menus appear in, specify the number of students and adjust the speaker volume before students use the SMART Table.
Orienting the surface
Whenever you touch the SMART Table’s surface, a small × or • should appear directly beneath your touch. If the × or • doesn’t align with your touch point, perform the following orientation procedure.

To orient the surface
1. Turn on your SMART Table interactive learning center.
   The SMART Table Activities menu appears.
2. Connect your USB bracelet to your table.
   The menu changes from Student mode to Teacher mode.
3. Press Orient.
   The orientation screen appears.
4. Press your finger in the center of the first target until the red cross moves to the next target, and then repeat this step for each target.
   When you successfully complete the orientation procedure, the orientation data saves to your table’s memory, and the SMART Table Activities menu appears.
5. Disconnect your USB bracelet.
   The menu changes from Teacher mode to Student mode.

Selecting the language
You can select the language the SMART Table Teacher mode menus appear in when you initially install SMART Table software. You can use Teacher mode to change the language after you complete the software installation.

To select the language
1. Connect your USB bracelet to your SMART Table.
   The menu changes from Student mode to Teacher mode.
2. Press the About SMART Table icon.
   The SMART Table software page appears.
3. Press the Language tab.
4. Select a language from the list, and then press OK.
Specifying the number of students

Your SMART Table can respond to input from up to eight students at a time. Before using your table, specify the number of students that will be using the table. Doing so changes several options in the SMART Table Activities software. For example, if you specify three students, a Multiple Choice question might require three responses.

**To specify the number of students**

1. Connect your USB bracelet to your SMART Table.
   
   The menu changes from Student mode to Teacher mode.

2. In the **Total Learners** control, press + to increase or press - to decrease the number of students.

3. Disconnect your USB bracelet.
   
   The menu changes from Teacher mode to Student mode.

Adjusting the speaker volume

You can adjust the volume of the SMART Table speakers to provide a comfortable listening level for a variety of environments.

**To adjust the speaker volume**

1. Connect your USB bracelet to your table.
   
   The menu changes from Student mode to Teacher mode.

2. Rotate the **Volume Control** icon clockwise to increase the volume or counter-clockwise to decrease the volume.

   **NOTE**
   
   Press the small speaker symbol at the edge of the icon to mute or unmute the audio.

3. Disconnect your USB bracelet.
   
   The menu changes from Teacher mode to Student mode.
About applications

SMART Table software includes the following applications:

- Paint
- Media
- Multiple Choice
- Hot Spots
- Narrow It Down
- Addition
- Addition Plus
- Hot Spaces
- Puzzle

**NOTES**

- Download the Narrow it Down application if it’s not included in your software. See *Downloading applications from SMART Exchange* on page 39.

- As SMART and third-party developers periodically introduce new applications for the SMART Table, SMART will provide instructions for customizing their content.

You can customize these applications and add other applications to your activity pack using SMART Table Toolkit.

**IMPORTANT**

You can’t use SMART Table Toolkit to customize the Puzzle application but you can add it to an activity pack. Other applications that aren’t customizable might be introduced in the future.

Starting and closing applications

**To start an application**

While in Student mode, press an application icon.

The application appears.

**To close an application and return to the menu**

1. Press ✗.

   The ✗ button moves to another corner.

2. Repeat the previous step for each ✗ button that appears.

**NOTE**

The number of ✗ buttons that appear depends on the number of total learners you specified.
Paint
In this virtual finger-painting application, students select colors and effects from the palette.

Students can use up to four palettes simultaneously. Each palette is located in a different corner of the surface. To open a palette, press it. The controls in the palette enable students to select colors and line effects, clear the screen and close Paint.

**TIPS**
- Each student must click **Clear Surface** to clear the entire surface.
- Each student must click **Close Paint** to close Paint.
- When one student selects a color or other option in a palette, that selection applies to all students.
- To erase, students can press and then drag a finger over the areas that they want to erase.

Media
In this application, students interact with sets of pictures and videos. Students discuss and learn by dragging and resizing photos and videos. Students can resize the picture or video by placing their fingers in opposite corners and dragging out to increase the size or dragging in to reduce the size.

Teachers can use SMART Table Toolkit to add their own pictures and videos or import images from the Gallery. Students can use SMART Document Camera to capture images directly into this application where they can rotate and scale these images like any other image. Refer to the *SMART Table 230i Hardware User’s Guide*, (smarttech.com/kb/141190) for information on connecting a SMART Document Camera to your table.
To capture images from your SMART Document Camera

1. Press the document camera icon.
   An image with a row of control options on each side appears on the table’s surface.

2. Adjust the image magnification using the zoom controls.

3. Press the check mark.
   The camera image appears on the table’s surface.

4. Press the X to close the image.

Multiple Choice

In Multiple Choice, students work as a team to answer questions by dragging the answers to the middle of the table’s surface.

**NOTE**

You can create your own questions to complement your class curriculum.

Each question appears in the center of the table’s surface with its possible answers arranged in a circle around it. Students can rotate the question image so they can all read it, and then select an answer by dragging it to the question.

Depending on the settings you choose, the application requires different ways of answering questions:

- Students must answer the question correctly to proceed to the next question.
  OR

- All students, a majority of students or the first student to pick an answer must answer the question correctly to proceed to the next question.
**Hot Spots**
In this application, students match words and images by moving labels to the correct spot identified by yellow dots on the diagram. When a student places a label over the correct spot, the label changes from black to green.

When students correctly identify all the parts of a diagram, Hot Spots displays its next diagram.

**Addition**
In Addition students work together to solve a random math problem (for example, 25 + 3) by moving visual objects, such as blocks or coins, into the center of the surface or by pressing the surface with their fingers for a few seconds. Students can move a block or coin by dragging it across the surface, or they can rotate it by placing two fingers on opposite sides and rotating their fingers.

When students solve a problem correctly, Addition displays the next math problem.

**Addition Plus**
In Addition Plus, students answer defined sets of math questions using visual objects such as blocks or coins. Students can move a block or coin by dragging it across the surface.

When students solve a math problem correctly, Addition Plus displays the next math problem.

**Hot Spaces**
In Hot Spaces, students sort words and images by moving them to their correct space. Students must identify the correct space on the diagram, and then drag the label to that space. If the label matches, the space’s border turns orange. After the students place all the labels and images on the correct spaces, the application displays the next diagram.
Puzzle
This application students solve tangrams or jigsaw puzzles by dragging and rotating the puzzle pieces to their correct locations. The pieces change color when students place them in the correct position. After the students have correctly placed all pieces, Puzzle displays another tangram or jigsaw puzzle.

**NOTE**
Puzzle isn’t customizable using the SMART Table Toolkit.

Narrow It Down
Narrow it Down is a game that promotes critical thinking in pre-K-3 students. In this game, students work together to form and ask questions about a secret card in order to identify it. The objective is to discard all of the cards except the secret one, and to be the first student to identify the secret card.

Selecting an application or activity pack
When you connect a USB drive to your SMART Table, it switches to Teacher mode. In this mode, you can choose which applications or activity packs you want to copy to your table from the USB drive. You can also see what applications and activity packs are stored on the SMART Table. After you choose one, remove the USB drive to return to Student mode and run the activity.
Chapter 2

Working with SMART Table Toolkit

In this chapter:

• Introduction to the SMART Table Toolkit on page 11
• SMART Table Toolkit computer requirements on page 12
• Installing SMART Table Toolkit software on page 13
• Updating the software on page 15
• Using the SMART Table Toolkit on page 17
• Customizing activities on page 19
• Customizing applications on page 21

Introduction to the SMART Table Toolkit

The SMART Table Toolkit enables you to create SMART Table activity packs as well as import SMART Table activity packs and applications from SMART Exchange. See Downloading applications from SMART Exchange on page 39. Use these files to customize SMART Table Activities for your class.

NOTE
SMART Table activity packs have the extension .tableContent, and SMART Table applications have the extension .tableApplication.

IMPORTANT
Before you download the SMART Table Toolkit, make sure your computer meets the minimum requirements shown in SMART Table Toolkit computer requirements on page 12.
SMART Table Toolkit computer requirements

Windows computers

Minimum hardware:
• Intel® Pentium® III 1 GHz or faster processor
• 512 MB RAM
• USB 2.0 receptacle
• Video card and monitor with XGA (1024 × 768) resolution support

Supported operating systems:
• Windows Vista® Home Premium, Business, Enterprise and Ultimate, including 64-bit editions
• Windows Vista SP1
• Windows XP SP2 and SP3
• Windows XP Tablet PC Edition SP2 and SP3
• Windows 7 32-bit and 64-bit

Other requirements:
• Administrator privileges
• Internet access

Mac computers

Minimum hardware:
• Intel Core Duo 1.83 GHz or faster processor
• 512 MB RAM
• USB 2.0 receptacle
• Video card and monitor with XGA (1024 × 768) resolution support

Supported operating system software:
• Mac OS X 10.5.8 and 10.6.3

Other requirements:
• Administrator privileges
• Internet access
• Up-to-date antivirus utility
Installing SMART Table Toolkit software

Uploading the SMART Table Toolkit installer on a USB drive
The USB bracelet provided with your SMART Table includes the SMART Table Toolkit installer. If you can’t locate the bracelet or need additional copies of the toolkit, download the toolkit installer from www.smarttech.com/downloads.

NOTE
You must have an Internet connection to access and download the SMART Table Toolkit.

To download SMART Table Toolkit
2. Browse to SMART Table > SMART Table Toolkit, and then follow the on-screen instructions to complete the download.

Installing the SMART Table Toolkit and SMART Sync classroom management software
Before installing SMART Table Toolkit, ensure that your computer meets the minimum requirements listed on the previous page.

IMPORTANT
If your computer is currently running a version of SMART Sync Teacher software, remove it before you install the SMART Sync Teacher software provided with SMART Table Toolkit. This ensures that the SMART Sync software on the SMART Table and the SMART Sync Teacher computer are compatible.

NOTES
• The SMART Sync software included with SMART Table Toolkit is only available for Windows computers. For more information on the SMART Sync software used with your SMART Table, see About SMART Sync classroom management software on page 41.

• You can install the SMART Table Toolkit on multiple computers and up to four SMART Sync installations.
To install the toolkit on a Windows computer

1. Connect your USB bracelet to the computer.
2. Locate and double-click the SMART Table Toolkit.exe file on the USB bracelet.

   **NOTE**
   You can also go to [www.smarttech.com/downloads](http://www.smarttech.com/downloads) to download the current version of SMART Table Toolkit.exe.

   The InstallShield Wizard appears, and then the SMART Table Toolkit installation wizard appears.

3. Click **Next**.

   The License Agreement window appears.

4. Read the license agreement. If you agree, select I accept the terms in the license agreement, and then click **Next**.

5. Select Install SMART Sync Teacher.

6. If you are installing SMART Sync Teacher, type the Product key that was included with your table into the box, and then click **Next**.

   **NOTE**
   If you didn’t remove SMART Sync Teacher software from the computer before running this procedure, a message appears asking you to remove it. Use the Windows Add or Remove Programs tool to remove the software, and then repeat the procedure.

7. Click **Install**.

   After several minutes, the InstallShield Wizard Completed window appears.

8. Click **Finish**, and then click **Yes** to restart your computer.

To install the toolkit on a Mac computer

1. Connect your USB bracelet to the computer.
2. Locate and double-click the SMART Table Toolkit.dmg file on the USB bracelet.

   **NOTE**
   You can also go to [www.smarttech.com/downloads](http://www.smarttech.com/downloads) to download the current version of SMART Table Toolkit.dmg.

   The SMART Table Toolkit installation wizard appears.

3. Follow the on-screen instructions to install the toolkit.
Updating the software

Checking for software updates
SMART Table Toolkit includes SMART Product Update (SPU). SPU automatically checks the Internet for updates to the SMART Table software.

**IMPORTANT**
You must have an Internet connection to check for software updates.

To check for updates
1. Start SMART Table Toolkit (see page 17).
   The SMART Table Toolkit window appears.
2. Click **About** in the top-right corner of the window.
   The **About** dialog box appears.
3. Click the **Technical Support** tab.
4. Click **Check for Software Update**.
   The **SMART Product Update** window appears listing all the SMART software installed on your computer.
   If there aren’t any updates available, a “Your software is up-to-date” message appears.
5. Click **OK**.
6. If updates are available for one or more software products, select **Update** for all that apply, and then follow the on-screen instructions.

**IMPORTANT**
If you are installing content in a language other than English, install the language pack available through the software upgrade site.
Installing the updates

If SPU finds updates to the SMART Table software, it asks you to connect the USB bracelet to the computer. Download the software updates to the USB bracelet, and then install the software updates on your SMART Table by completing the following procedure.

To install updates on your SMART Table

1. Turn on your SMART Table.
   The *SMART Table Activities* menu appears.

2. Connect your USB bracelet to the table.
   The menu changes from Student mode to Teacher mode.

3. Press **OK**.
   Windows Installer appears, and then after a delay, a *License Agreement* page appears.

4. Press **Agree** in each of the four dialog boxes.
   A message appears indicating that the update is complete. Your SMART Table installs the update, and then the *SMART Table Activities* menu appears.

5. Disconnect, and then reconnect the USB bracelet.

6. Press **OK**.

7. Disconnect the USB bracelet.
Starting the toolkit
After you install the SMART Table Toolkit, use the following procedures to start it. You can then create a new .tableContent file or open an existing one.

**IMPORTANT**

- You can only have one instance of SMART Table Toolkit running at a time, and one only file open within the toolkit.
- You must have an Internet connection to access and download Gallery images.

To start the toolkit on a Windows computer

Double-click the **SMART Table Toolkit** icon on your desktop.

OR

Select **Start > All Programs > SMART Technologies > SMART Table > SMART Table Toolkit**.

The **SMART Table Toolkit** window appears.

To start the toolkit on a Mac computer

Click the **SMART Table Toolkit** icon in the Dock.

The **SMART Table Toolkit** window appears.
Creating and opening .tableContent files

To create or open a .tableContent file

Click **New** to create a .tableContent file.

OR

Click **Open**, locate and select the .tableContent file, and then click **Open**.

Saving activity packs

When you add an application to an activity pack, a tab for the application appears at the top of the window.

- If the tab’s label is preceded by an asterisk (*), the tab contains unsaved changes.
- If the tab exists, the tab is included in the file.

Before you can apply your activity pack to your SMART Table, save them in a .tableContent file on the USB bracelet.

To save a file for the first time

1. Click **Save As**.
   
   The **Save** dialog box appears.

2. Navigate to an appropriate location on the computer.

3. Type a name for the .tableContent file in the **File name** box, and then click **Save**.

To save a file subsequent times

Click **Save All**.

To remove an application tab from a file

On the left side of the **Home** screen, clear the application’s check box, and then click **Yes**.

OR

Click the application’s tab to open it, and then click **Remove from Lesson**, and then click **Yes**.

The tab disappears.
Customizing activities

Tips for customizing activities

- Make sure your computer’s video resolution is set to XGA (1024 × 768) before customizing the menu.
- Use 4:3 (1024 × 768) images for backgrounds and windows opened to full-screen.
- SMART Table software supports non-animated GIF files only. Although GIF images might appear slightly distorted in Preview, they will appear correctly on the table.
- For any application in which you can use images as labels, SMART recommends a limit of 150 pixels along the image’s longest side.
- PNG files work well if you are importing animated or colorful images, but SMART recommends you use JPG files to import realistic photo images.
- You can import questions and answers as images or text for all applications.

Customizing the Student menu

When you turn on your SMART Table, the SMART Table Activities menu for the open activity pack appears. Students can then select an application from this menu.

Using the SMART Table Toolkit, you can customize the menu’s background image and add instructions for students.

To customize backgrounds

1. Click Home.
2. Add a background image using any of the following methods:
   - Click Import image to import a JPEG, GIF or PNG file.
   - Click Gallery to import a gallery item.

   The Background Image dialog box closes and the selected graphics file appears below the Background button.
To add student instructions

Scroll to the bottom of the window.

• If you want to add written instructions, type your instructions in the Text box.

• If you want to add audio instructions, click Import sound, browse to and click the WAV or MP3 file that contains your audio instructions, and then click Open.

Tip
Click Clear sound to clear the sound file.

Selecting applications
You can choose up to eight applications for an activity pack (.tableContent file).

To select applications for an activity pack

From the All Activities list on the left side of the screen, select the applications you want in your activity pack.

An icon for each application appears in the Student menu, and a tab appears that you can select to customize each application.

Note
You can’t use SMART Table Toolkit to customize some applications but you can still add them to your activity pack.

To remove an activity

1. Select the activity in the All Activities list, and then click the Remove button below the All Activities list.

   The Confirmation dialog box appears.

2. Click Yes.
Customizing applications

You can customize the following applications using SMART Table Toolkit:

- Paint
- Media
- Multiple Choice
- Hot Spots
- Addition
- Addition Plus
- Hot Spaces
- Narrow It Down

Before customizing

While you are using SMART Table Toolkit to customize your applications, you can preview them to see how they will appear to students. Also, if you haven’t saved your changes, you can restore your application to its earlier state.

Previewing applications

To preview your application

1. Select Preview <applicationname>.
   
   A web browser window appears showing your application.

   **NOTE**
   
   If you can’t preview your application, check to see if a firewall is blocking access to your browser.

2. Experiment with your application to test its operation and layout.

3. Close the browser window.
   
   You can now return to SMART Table Toolkit.

   **IMPORTANT**
   
   Your application’s default content appears in the operating system’s language. The SMART Table user interface appears in the language selected through the table’s Teacher menu.

Removing unsaved changes

To remove unsaved changes from an application.

Click the application’s tab, and then click Discard Changes.

Any unsaved changes disappear.
Customizing Paint

Customize Paint by specifying the following:

- Whether to show an ink effect when students draw on the surface.
- Line thickness
- Background images (up to 20)
- Instructions for students

To customize Paint

1. Click **Paint**.
2. Select the **Use ink effect** check box to show an ink effect when students draw on the screen.
3. Set the **Line thickness** slider to the line thickness you want to use in Paint.
4. Add a background image using any of the following methods:
   - Click **Import image** to import a JPEG, GIF or PNG file.
   - Click **Paste image** to paste a graphics file that you copied in another application.
   - Click **Gallery** to import a gallery item.

   **TIP**
   
   Click **Clear image** to clear the graphics file.

5. Repeat step 4 for each background image you want to add to Paint.

   **TIP**
   
   To remove a background, click it, and then click **Remove**.

6. Add instructions for students.

   - If you want to add written instructions, type your instructions in the **Text** box.
   - If you want to add audio instructions, click **Import sound**, browse to and click the WAV or MP3 file that contains your audio instructions, and then click **Open**.

   **TIP**
   
   Click **Clear sound** to clear the sound file.
Customizing Media

To customize Media

1. Click Media.

2. Add a background image using any of the following methods:
   - Click Import image to import a JPEG, GIF or PNG file.
   - Click Paste image to paste a graphics file that you copied in another application.
   - Click Gallery to import a gallery item.

   **TIP**
   Click Clear image to clear the graphics file.

3. Select the Use presentation scaling check box to automatically maximize and orient a graphics or video file to the bottom of the table when students resize it to the maximum allowed value.

   **TIP**
   This feature is useful in situations where you want to show pictures or videos in a slide show-style presentation.

4. Set the Range of scaling sliders to the minimum and maximum sizes that students can resize graphics and video files.

   In the example above, the minimum size that students can scale a file is 50% of its original size and the maximum size is 300% of its original size.

   **TIP**
   If you don’t want the students to change the size of the image, place the sliders next to each other.

5. Add a graphics or video file using any of the following methods:
   - Click Import image to import a JPEG, GIF, PNG, Windows Media® or AVI file.
   - Click Gallery to import a gallery item.
– Click **Paste** to paste a graphic or video file that you copied in another application.

– Drag and drop a graphics or video file into the toolkit.

**NOTE**
If you want to import a video file into your presentation, SMART recommends using a video resolution of no more than 640 × 480 pixels. For Presentation mode media, 1024 × 768 (or 720p) pixels is sufficient. Large video files take longer to install.

6. Repeat step 5 for each graphic or video file you want to add to Media.

**TIP**
To remove a file, click it, and then click **Remove**.

7. Add instructions for students.

– If you want to add written instructions, type your instructions in the **Text** box.

– If you want to add audio instructions, click **Import sound**, browse to and click the WAV or MP3 file that contains your audio instructions, and then click **Open**.

**TIP**
Click **Clear sound** to clear the sound file.
Customizing Multiple Choice

Multiple Choice comes with a default question set. You can create questions that are relevant to your curriculum using text, images or a combination of the two. For example, for pre-literate students, you can present a picture of a tree and then use pictures of a bird, fish and snake as answers.

To create a question set in Multiple Choice

1. Click Multiple Choice.
2. Type a name for the question set in the Step 1 box, and then click Create.
3. Select the Correct Answer Required check box to require students to select the correct answer to proceed to the next question.
4. Select one of the following options:

<table>
<thead>
<tr>
<th>To have:</th>
<th>Click:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A majority of students answer the question before they can proceed to the next question</td>
<td>Majority Rules</td>
</tr>
<tr>
<td>All students answer the question before they can proceed to the next question</td>
<td>All Must Agree</td>
</tr>
<tr>
<td>The first student to answer the question wins</td>
<td>First Wins</td>
</tr>
</tbody>
</table>

5. If you clicked the First Wins option, set the Next question delay slider to the number of seconds you want between questions.
6. Set the Answer display time slider to the number of seconds you want before the correct answer displays. Define the question/answer layout using the Question/Answer Layout control.
7. Type the first question in the Question box.
8. Optionally, type feedback for the first question in the Feedback box.

NOTE
Feedback appears after students answer the question.
9. Add an image for the first question using any of the following methods:
   - Click [Import image] to import a JPEG, GIF or PNG file.
   - Click [Paste image] to paste a graphics file that you copied in another application.
   - Click [Gallery] to import a gallery item.

   **TIP**
   For best performance, use a question image that doesn’t exceed 500 pixels in length.

10. Add an answer to the question using one of these methods:
    - Type a one- or two-word answer to the question in the Answer box.
    - If you want to use an image for an answer, you can import a gallery item, or you can copy and paste an image.

   **TIP**
   For best performance, use an answer image that doesn’t exceed 150 pixels in length.

11. Click Add, and then repeat steps 7 to 10 for each question you want to include.

12. Add instructions for students.
    - If you want to add written instructions, type your instructions in the Text box.
    - If you want to add audio instructions, click [Import sound], browse to and click the WAV or MP3 file that contains your audio instructions, and then click Open.

   **TIP**
   Click [Clear sound] to clear the sound file.

---

### To edit a question set
1. Select the question set in the All Activities list.
2. Repeat steps 3–12 from the previous procedure.

### To remove a question
Select the question in the All questions list, and then click Remove.

### To remove a question set
1. Select the question set in the All Activities list, and then click the Remove button below the All Activities list.
   
   The Confirmation dialog box appears.
2. Click Yes.
Customizing Hot Spots

You can create custom diagrams in Hot Spots to complement your curriculum. For example, if your class is studying the parts of speech, you can create a set of sentence diagrams and have students label the nouns, verbs and adjectives in each sentence. You can also use images for labels for pre-literate students or use a combination of text and images.

To create a new activity

1. Click **Hot Spots**.
2. Type a name for the activity in the **Step 1** box, and then click **Create**.
3. Add a background image using any of the following methods:
   - Click **Import image** to import a JPEG, GIF or PNG file.
   - Click **Gallery** to import a gallery item.

To add text labels

1. Click **Add Label**.
   
   A new label appears on the background image.
2. Double-click the label, type its text, and then click an area outside of the label.
3. Repeat steps 1 and 2 for each text label you want to add to the diagram.
4. Select **End Region** if it isn’t already selected, and then drag the label to its end position.

To add pictures

1. Click **Add Picture**.

   The **Open** dialog box appears.
2. Navigate to and select the JPEG, GIF or PNG file that you want to use, and then click **Open**.

   OR

   Click **Gallery** to import a gallery item.
3. Repeat steps 1 and 2 for each picture you want to add to the diagram.
4. Click **End Region** if it isn’t already selected, and then drag the label to the correct Hot Spot.
To set the starting positions of labels and pictures

1. Click **Start Positions**.
2. Drag the labels and pictures to their starting positions.

To remove labels or pictures

Select the label or picture, and then click **Remove**.

To add student instructions

- If you want to add written instructions, type your instructions in the **Text** box.
- If you want to add audio instructions, click **Import sound**, browse to and click the WAV or MP3 file that contains your audio instructions, and then click **Open**.

**TIP**

Click **Clear sound** to clear the sound file.
Customizing Addition

The Addition application creates questions automatically based on the counting items you select and the total number of learners you have specified for the table. See Specifying the number of students on page 5.

You can customize Addition by specifying the following:

- Whether to use coins, blocks or fingers to count
- If applicable, the number of each coin/block type
- Background images
- Instructions for students

To customize Addition

1. Click Addition.

2. Add a background image using any of the following methods:
   - Click Import image to import a JPEG, GIF or PNG file.
   - Click Paste image to paste a graphics file that you copied in another application.
   - Click Gallery to import a gallery item.

   **TIPS**
   - Click Clear image to clear the graphics file.

3. Select the type of coins or blocks.

<table>
<thead>
<tr>
<th>To have students count in:</th>
<th>Click:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian coins</td>
<td>CAD</td>
</tr>
<tr>
<td>American coins</td>
<td>USD</td>
</tr>
<tr>
<td>European coins</td>
<td>EUR</td>
</tr>
<tr>
<td>British coins</td>
<td>GBP</td>
</tr>
<tr>
<td>Brazilian coins</td>
<td>Brazilian</td>
</tr>
<tr>
<td>Russian coins</td>
<td>Russia</td>
</tr>
<tr>
<td>Australian coins</td>
<td>Australia</td>
</tr>
<tr>
<td>Mexican coins</td>
<td>Mexico</td>
</tr>
<tr>
<td>Chinese coins</td>
<td>China</td>
</tr>
<tr>
<td>Blocks</td>
<td>Blocks</td>
</tr>
<tr>
<td>Fingers</td>
<td>Fingers</td>
</tr>
</tbody>
</table>
4. If you clicked CAD, USD, EUR, GBP, Brazilian, Russian, Australia, Mexico, China, or Blocks in step 2, select the number of coins or blocks you want to include in Addition for each coin/block type.

**NOTE**
The available coin denominations depend on the currency selected.

5. Add instructions for students.
   - If you want to add written instructions, type your instructions in the Text box.
   - If you want to add audio instructions, click **Import sound**, browse to and click the WAV or MP3 file that contains your audio instructions, and then click Open.

**TIP**
Click **Clear sound** to clear the sound file.
Customizing Addition Plus

You can customize Addition Plus by specifying the following:

- The questions that your students must answer, and the correct answers
- Whether to use coins or blocks to count, and the number of each coin/block type
- Background images
- Instructions for students

1. Click **Addition Plus**.
2. Add a background image using any of the following methods:
   - Click **Import image** to import a JPEG, GIF or PNG file.
   - Click **Paste image** to paste a graphics file that you copied in another application.
   - Click **Gallery** to import a gallery item.

   **TIP**
   Click **Clear image** to clear the graphics file.

3. Select the type of coins or blocks you want to include in Addition Plus for each coin/block type.

<table>
<thead>
<tr>
<th>To have students count in:</th>
<th>Click:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian coins</td>
<td>CAD</td>
</tr>
<tr>
<td>American coins</td>
<td>USD</td>
</tr>
<tr>
<td>European coins</td>
<td>EUR</td>
</tr>
<tr>
<td>British coins</td>
<td>GBP</td>
</tr>
<tr>
<td>Brazilian coins</td>
<td>Brazilian</td>
</tr>
<tr>
<td>Russian coins</td>
<td>Russia</td>
</tr>
<tr>
<td>Australian coins</td>
<td>Australia</td>
</tr>
<tr>
<td>Mexican coins</td>
<td>Mexico</td>
</tr>
<tr>
<td>Chinese coins</td>
<td>China</td>
</tr>
<tr>
<td>Blocks</td>
<td>Blocks</td>
</tr>
<tr>
<td>Fingers</td>
<td>Fingers</td>
</tr>
</tbody>
</table>

4. If you clicked **CAD, USD, EUR, GBP, Brazilian, Russian, Australia, Mexico, China, Blocks** or **Fingers** in step 2, select the number of coins or blocks you want to include in Addition Plus for each coin/block type.
NOTE
The available coin denominations depend on the currency selected.

5. Type your question in the *Question Text* box, and then type the correct answer in the *Answer* box.

6. Add instructions for students.

   – If you want to add written instructions, type your instructions in the *Text* box.

   – If you want to add audio instructions, click **Import sound**, browse to and click the WAV or MP3 file that contains your audio instructions, and then click **Open**.

   **TIP**
   Click **Clear sound** to clear the sound file.
Customizing Hot Spaces

You can create custom diagrams in Hot Spaces to complement your curriculum. For example, if your class is studying the four seasons, you can create areas or spaces on the table to represent each season and have students identify labels or pictures that are associated with each season.

To create a new activity

1. Click the Hot Spaces tab.
2. Type a name for the activity in the Step 1 box, and then click Create.
3. Add a background image using any of the following methods:
   - Click Import image to import a JPEG, GIF or PNG file.
   - Click Gallery to import a gallery item.

To create the Hot Spaces

1. Select one of the shape icons beside Hot Spaces tools.
2. Drag a shape around an area of the background image you want to use as a Hot Space.
3. Repeat steps 1 and 2 for each Hot Space.

   IMPORTANT
   If you want to label the spaces, do so when you create the background image.

To add a text label

1. Click Add Label.
   A new label appears on the background image.
2. Double-click the label, type its text, and then click an area outside of the label.
3. Repeat steps 1 and 2 for each text label you want to add to the diagram.
4. Select End Region if it isn’t already selected, and then drag each label to its correct Hot Space.
   The Hot Space outline changes color to indicate that the label is part of the space.
To add a picture

1. Click **Add Picture**.
   
   The **Open** dialog box appears.

2. Select **End Region** if it isn’t already selected.

3. Browse to and select the JPEG, GIF or PNG file that you want to use, and then click **Open**.

   OR

   Click **Gallery** to import a gallery item.

4. Drag the picture to its start position.

5. Repeat steps 1– 4 for each picture you want to add to the diagram.

6. Drag each picture to its correct Hot Space.

   The Hot Space outline changes color.

To set the start positions of the labels and pictures

1. Click **Start positions**.

2. Drag the labels and pictures to their starting positions.

To add instructions for students

- If you want to add written instructions, type your instructions in the **Text** box.

- If you want to add audio instructions, click **Import sound**, browse to and click the WAV or MP3 file that contains your audio instructions, and then click **Open**.

   **TIP**

   Click **Clear sound** to clear the sound file.
Customizing Narrow It Down

To create a new activity
1. Click the **Narrow It Down** tab.
2. Type a name for the activity in the **New Activity** box, and then click **Create**.
3. Add a background image using any of the following methods:
   - Click **Import image** to import a JPEG, GIF or PNG file.
   - Click **Paste image** to paste a graphics file that you copied in another application.
   - Click **Gallery** to import a gallery item.

**TIP**
Click **Clear image** to clear the graphics file.

To add an image with text
1. Click **Add**.
   An empty gray box appears.
2. Add an image using any of the following methods:
   - Click **Import Image File** to import a JPEG, GIF or PNG file.
   - Click **Import Gallery Image** to import a gallery item.

**TIP**
Narrow It Down works best if you use images less than 500 pixels in length.

3. Type the text you want to appear in the box below the graphics.

To set the image for the activity icon in the Student menu
Select one of the imported images, and then click **Set Activity Image** at the bottom of the window.
Chapter 3
Downloading, saving and copying activities and applications

In this chapter:
• Downloading activity packs using SMART Table Toolkit on page 37
• Synchronizing activity packs on page 38
• Downloading applications from SMART Exchange on page 39
• Synchronizing applications on page 40

Downloading activity packs using SMART Table Toolkit
You can download activity packs (.tableContent files) for the SMART Table using the Online Activities tab of your SMART Table Toolkit.

To download activity packs
1. Start SMART Table Toolkit.
   The SMART Table Toolkit window appears.
2. Click Online Activities.
   The SMART Exchange website appears.
3. Click SMART Table activity packs in the Free resources tab.
4. Browse to your desired activity pack, and then click Download.
5. Copy the .tableContent file to your USB bracelet.
   If you want to modify the contents of the activity pack, you can save it to your computer, and then copy it to the USB bracelet after you save your changes.
Synchronizing activity packs

Once you save a .tableContent file, you can apply the file to your SMART Table. Your SMART Table saves all previously installed activity packs in an archive folder. You can open any of these archived activity packs.

**NOTE**
If you apply a new activity pack that contains an application that isn’t installed on the table, the icon for that application won’t appear on the table’s Activities menu. To install the application, see *Synchronizing applications* on page 40.

---

**To apply a new activity pack**

1. Turn on your SMART Table.
   
   The *SMART Table Activities* menu appears.

2. Connect your USB bracelet to the table.
   
   The menu changes from Student mode to Teacher mode.

3. Press **Choose Activities**.

   A list of all .tableContent files on your USB bracelet appears.

4. Select the appropriate .tableContent file, and then press **Open**.

   **NOTE**

   The name of each .tableContent file must be unique. You’re unable to apply a .tableContent file with the same name as one you previously applied.

   Your table applies the .tableContent file, and a confirmation message appears.

5. Press **OK**.

6. Disconnect your USB bracelet.
   
   The menu changes from Teacher mode to Student mode.

---

**To open a previous activity pack**

1. Turn on your SMART Table.

   The *SMART Table Activities* menu appears.

2. Connect your USB bracelet to your SMART Table.

   The menu changes from Student mode to Teacher mode.

   **NOTE**

   Previous activity packs are stored on the SMART Table’s computer, not on your USB bracelet, but you need to connect the USB bracelet to the table to make it switch to Teacher mode.

3. Press **Choose Activities**, and then press the **Choose Table** tab.
A list of previous activity packs appears.

4. Select the activity pack you want to open, and then press **Open**.
   
   Your SMART Table opens the selected activity pack, and a confirmation message appears.

5. Press **OK**.

6. Disconnect the USB bracelet.
   
   The menu changes from Teacher mode to Student mode.

---

### Downloading applications from SMART Exchange

Using the SMART Table Toolkit’s **Online Activities** tab, you can download applications (.tableApplication) for the SMART Table.

Check the [SMART Exchange (Beta)](http://example.com) Website for new SMART Table applications.

---

**To download applications**

1. Click **Online Activities**.
   
   The **SMART Exchange** website appears.

2. Click **SMART Table applications** in the **Free resources** tab.

3. Browse to your desired application, and then click **Download**.

4. Copy the .exe file to your computer or USB bracelet.

5. Double-click the file and follow the on-screen instructions to install the application.

---

**To open a downloaded application with SMART Table Toolkit**

1. Close SMART Table Toolkit, if it is open.

2. Browse to the `<application>.tableApplication` file you downloaded.

3. Double-click the `<application>.tableApplication` file.
   
   The SMART Table Toolkit starts, and an `<application>` tab appears in the left menu so you can click the checkbox and customize the application.

4. Copy the file to your USB bracelet so you can apply it to your SMART Table.

   See **Synchronizing applications** below.
Synchronizing applications

To apply .tableApplication files to your SMART Table, place them on your USB bracelet and then complete the following procedure.

**IMPORTANT**
You must place the .tableApplication files in the root folder of your USB bracelet.

To apply an application

1. Turn on your SMART Table.
   The *SMART Table Activities* menu appears.

2. Connect your USB bracelet to the table.
   The menu changes from Student mode to Teacher mode.

3. Press **Choose Activities**.
   A list of all .tableApplication files on your USB bracelet appears below *Activities*.

4. Select the appropriate .tableApplication file, and then press **Open**.
   **NOTE**
   The name of each .tableApplication file must be unique. If you apply a .tableApplication file with the same name as an existing one, then the version on the SMART Table is overwritten.
   Your SMART Table applies the application defined in the .tableApplication file and a confirmation message appears.

5. Press **OK**.

6. Disconnect your USB bracelet.
   The menu changes from Teacher mode to Student mode.
Chapter 4
SMART Table and SMART Sync software

In this chapter:

• About SMART Sync classroom management software on page 41
• Using SMART Sync software with your SMART Table on page 42
• Before you can use SMART Sync with your table on page 42

About SMART Sync classroom management software

With SMART Sync software, you can manage your classroom and communicate with and assist your students without leaving your computer.

See Chapter 2 of the SMART Sync 2010 User’s Guide (smarttech.com/kb/144148) to find instructions for using SMART Sync to:

– monitor and control the SMART Table using the Thumbnails view, which displays real-time images of the table’s screen
– capture snapshots of the table’s screen
– take control of the table’s desktop
– disconnect the SMART Table from SMART Sync
– place a temporary lock on the table’s computer
– remotely shut down the table

See Chapter 7 to find instructions to:

– send files to the table
Using SMART Sync software with your SMART Table

**IMPORTANT**

- The computer inside your SMART Table includes a specialized version of SMART Sync Student software and a Wi-Fi wireless network interface card. Because this software is specifically designed to work with your SMART Table and SMART Table Toolkit software, do not upgrade your SMART Sync software.

- If you allow Internet access to your SMART Table and the internal computer’s software becomes damaged as a result, this invalidates the SMART Table’s warranty.

Using a wireless networking hub, you can set up a network that enables your SMART Sync Teacher computer access to the table’s SMART Sync Student software. You can monitor multiple SMART Tables from a single SMART Sync Teacher computer.

Before you can use SMART Sync with your table

Before you can remotely monitor and control your SMART Table with SMART Sync software, you must do the following:

- Install and activate SMART Sync Teacher software on your teacher computer.

- Set up and configure a wireless network.

- Configure the table’s SMART Sync Student software.

Installing SMART Sync Teacher software

1. If you don’t have SMART Sync Teacher software installed on your Teacher computer, download and install the SMART Table Toolkit software from smarttech.com/downloads, ensuring that you select the Install SMART Sync Teacher option. For more information, see To install the toolkit on a Windows computer on page 14.

2. Assign a name to the SMART Sync Teacher software.

   **NOTE**
   
   You will use this name when configuring the SMART Sync Student software on your table.
Setting up your wireless network
Before you set up the SMART Table’s wireless network configuration, take the table out of Student and Teacher modes.

1. Turn on your SMART Table (see Turning On Your SMART Table).
   The SMART Table Activities menu appears.

2. Connect a USB bracelet to your SMART Table.
   The menu changes from Student mode to Teacher mode.

3. Press ✖️, and then press OK.
   The SMART Table Activities software closes.

4. Disconnect your USB bracelet.

5. Connect a mouse to a USB receptacle on the side of your SMART Table.
   IMPORTANT
   Do not place the mouse on the touch surface because the camera might interpret the mouse contact as a touch.

To set up a wireless network in the Teacher computer
Refer to the documentation provided with your wireless network device to set up and configure a Wi-Fi network for your SMART Sync system.

NOTES
– Configure the table’s wireless network settings using the Windows Vista or Windows 7.0 Control Panel. Use the SMART on-screen keyboard or connect a USB keyboard to enter network settings.

– Restart your table after setting up the network so that SMART Sync software can detect the network.

Configuring SMART Sync Student software
The SMART Sync Student software on your SMART Table is configured so that you won’t need to make many changes to its configuration.

TIP
Install SMART Sync Teacher on the Teacher computer first so that you can detect the Teacher installations on your network when running the SMART Sync Student Configuration Tool.
To configure SMART Sync Student software

1. Select Start > All Programs > SMART Technologies > SMART Sync > SMART Sync Student Configuration Tool 2010.

   The SMART Sync Student Configuration Tool dialog box appears.

2. Click Next, select Hidden from students, and then click Next.

3. Select Automatically connects with this Teacher ID.

4. Type the ID in the box below the option, and then click Next.

   If the Teacher ID isn’t visible on your network, a dialog box appears asking you to continue or troubleshoot the problem. Click Continue Configuration.

5. Select the student’s language in the Language drop-down list, and then click Next.

   The SMART Sync Student Configuration Tool window appears.

6. In the Student ID page, select Anonymous, and then click Next.

7. In the Shared Files Folder page, select the My Documents folder, and then click Next.

8. Select No security, and then click Next.

9. Click Finish, and then click OK.

To configure multiple tables in the same classroom

1. Select Start > All Programs > SMART Technologies > SMART Sync > SMART Sync Student Configuration Tool 2010.

   The SMART Sync Student Configuration Tool dialog box appears.

2. Click Next, select Hidden from students, and then click Next.

3. Select Automatically connects with this Teacher ID.

4. Type the ID in the box below the option, and then click Next.

   If the Teacher ID isn’t visible on your network, a dialog box appears asking you to continue or troubleshoot the problem. Click Continue Configuration.

5. Select the student’s language, and then click Next.

6. Type a student’s name/ID in the The following box, and then click Next.

7. Select Anonymous, and then click Next.

8. Select the My Documents folder, and then click Next.

   IMPORTANT

   Repeat steps 1–8 for each table in the classroom, assigning each table a unique name.
Appendix A

Customer support

Online information and support
Visit www.smarttech.com/support to view and download user’s guides, how-to and troubleshooting articles, software and more.

Training
Visit www.smarttech.com/trainingcenter for training materials and information about our training services.

Technical support
If you experience difficulty with your SMART product, please contact your local reseller before contacting SMART Technical Support. Your local reseller can resolve most issues without delay.

NOTE
To locate your local reseller, visit www.smarttech.com/where.

All SMART products include online, telephone, fax and e-mail support:

Online  www.smarttech.com/contactsupport
Telephone  +1.403.228.5940 or
Toll Free 1.866.518.6791 (U.S./Canada)
(Monday to Friday, 5 a.m. – 6 p.m. Mountain Time)
Fax  +1.403.806.1256
E-mail  support@smarttech.com
Shipping and repair status

Contact SMART’s Return of Merchandise Authorization (RMA) group, Option 4, +1.866.518.6791, for shipping damage, missing part and repair status issues.

General inquiries

Address
SMART Technologies
3636 Research Road NW
Calgary, AB T2L 1Y1
CANADA

Switchboard +1.403.228.5940 or
Toll Free 1.866.518.6791 (U.S./Canada)

Fax +1.403.228.2500

E-mail info@smarttech.com

Warranty

Product warranty is governed by the terms and conditions of SMART’s “Limited Equipment Warranty” that shipped with the SMART product at the time of purchase.

Registration

To help us serve you, register online at www.smarttech.com/registration.
Contact SMART Technologies
Toll Free 1.866.518.6791 (U.S./Canada)
or +1.403.228.5940