### The logo has a tulip shape image in blue, green and yellow, with the letters EA and word Education Authority t o right of the image.

EA Sensory Service – Vision Impairment

### iPad Accessibility to Support Learners with Vision Impairment

There are a range of support tools for learners with vision impairment within the built-in features of the iPad: Settings, Accessibility and Vision. These include:

* [Voice Over (screen reading)](#_VoiceOver)
* [Zoom (magnification)](#_Zoom)
* [Magnifier](#_Magnifier)
* [Display and Text Size](#_Adjust_the_display)
* [Motion](#_Reduce_screen_motion)
* [Spoken Content](#_Hear_iPad_speak)
* [Audio descriptions](#_Turn_on_audio)

Using the on-screen keyboard at high magnification levels can make typing difficult, as both the on-screen keyboard and typing area are enlarged, i.e. Full Screen Zoom.

A high contrast Bluetooth keyboard such as the XL Print – Black on White, White on Black or Black on Yellow external keyboard is recommended.

The Apple Keyboard (Bluetooth) can also be used when using VoiceOver to type and maximise the built-in keyboard shortcuts to aid navigation.

**VoiceOver**

**Voiceover** is the iPad’s screen reader and read items on the screen such as apps, button menus and text. As well as using VoiceOver to read information, you can use it to navigate around the iPad and to type, although a compatible Bluetooth keyboard is recommended. Different voices are available and you can alter the speed of the voice. VoiceOver works with a range of Bluetooth Braille Displays thereby providing audio and tactile feedback for Braille users.

**Zoom**

You can magnify the entire screen (Full Screen Zoom), magnify part of the screen with a resizable lens (Window Zoom), or magnify a portion of the screen that stays in one place (Pinned Zoom). You can use Zoom together with VoiceOver.

To Set up Zoom

1. Go to Settings > Accessibility > Zoom, and turn on Zoom.
2. Adjust any of the following:
	* *Follow Focus:* Track your selections, the text insertion point, and your typing.
	* *Smart Typing:* Switch to Window Zoom when a keyboard appears.
	* *Keyboard Shortcuts:* Control Zoom using shortcuts on an external keyboard.
	* *Zoom Controller:* Turn the controller on, set controller actions, and adjust the colour and opacity.
	* *Zoom Region:* Choose Pinned Zoom, Full Screen Zoom, or Window Zoom.
	* *Zoom Filter:* Choose None, Inverted, Grayscale, Grayscale Inverted, or Low Light.
	* *Maximum Zoom Level:* Drag the slider to adjust the level.

To Use Zoom

1. Double-tap the screen with three fingers or [use accessibility shortcuts](https://support.apple.com/en-gb/guide/ipad/accessibility-shortcuts-ipad9a245f9e/14.0/ipados/14.0) to turn on Zoom.
2. To see more of the screen, do any of the following:
	* *Adjust the magnification:* Double-tap the screen with three fingers (without lifting your fingers after the second tap), then drag up or down. Or triple-tap with three fingers, then drag the Zoom Level slider.
	* *Move the Zoom lens:* (Window Zoom) Drag the handle at the bottom of the Zoom lens.
	* *Pan to another area:* (Full Screen Zoom) Drag the screen with three fingers.
3. To adjust the settings with the Zoom menu, triple-tap with three fingers and adjust any of the following:
	* *Choose Region:* Choose Pinned Zoom, Full Screen Zoom, or Window Zoom.
	* *Resize Lens:* (Window Zoom) Tap Resize Lens, then drag any of the round handles that appear.
	* *Choose Filter:* Choose Inverted, Grayscale, Grayscale Inverted, or Low Light.
	* *Show Controller:* Show the Zoom Controller.
4. To use the Zoom Controller, do any of the following:
	* *Show the Zoom menu:* Tap the controller.
	* *Zoom in or out:* Double-tap the controller.
	* *Pan:* When zoomed in, drag the controller.

To turn off Zoom, double-tap the screen with three fingers or [use accessibility shortcuts](https://support.apple.com/en-gb/guide/ipad/accessibility-shortcuts-ipad9a245f9e/14.0/ipados/14.0).

Magnifier

Magnify nearby objects with Magnifier on iPad

Magnifier allows you to use your devices camera as a magnifying glass to zoom in on objects near you. When enabled magnifier will appear on your Home screen as an Accessibility shortcut.

Set up Magnifier

1. Go to Settings> Accessibility> Magnifier.
2. Turn on Magnifier.

This adds Magnifier as an accessibility shortcut.

1. To adjust the zoom level, drag the zoom control slider left or right.
2. To show more controls, drag the grabber up.
3. Adjust the image using any of the following controls:
	* *Brightness*
	* *Contrast*
	* *Colour filters*
	* *Flashlight*

Adjust the display and text size on iPad

To customize the display settings to make the screen easier to see.

Use display accommodations

1. Go to Settings > Accessibility > Display & Text Size.
2. Adjust any of the following:
	* *Bold Text:* Display the text in boldface characters.
	* *Larger Text:* Turn on Larger Accessibility Sizes, then adjust the text size using the Font Size slider.

This setting adjusts to your preferred text size in apps that support Dynamic Type, such as Settings, Calendar, Contacts, Mail, Messages, and Notes.

* + *Button Shapes:* This setting underlines text you can tap.
	+ *On/Off Labels:* This setting indicates switches turned on with “1” and switches turned off with “0”.
	+ *Reduce Transparency:* This setting reduces the transparency and blurs on some backgrounds.
	+ *Increase Contrast:* This setting improves the contrast and legibility by altering colour and text styling.

Apps that support Dynamic Type—such as Settings, Calendar, Contacts, Mail, Messages, and Notes—adjust to your preferred text size.

* + *Differentiate Without Colour:* This setting replaces user interface items that rely on colour to convey information with alternatives.
	+ *Smart Invert or Classic Invert:* Smart Invert Colours reverses the colours of the display, except for images, media, and some apps that use dark colour styles.
	+ *Colour Filters:* Tap a filter to apply it. To adjust the intensity or hue, drag the sliders.
	+ *Reduce White Point:* This setting reduces the intensity of bright colours.
	+ *Auto-Brightness:* This setting automatically adjusts the screen brightness for current light conditions using the built-in ambient light sensor.

You can also apply these effects to only the contents of the zoom window. See [Zoom in on the iPad screen](https://support.apple.com/en-gb/guide/ipad/zoom-ipad9a245e3e/14.0/ipados/14.0).

Reduce screen motion

If you notice screen movement on your iPhone, iPad or iPod touch, you can turn on the Reduce Motion setting.

Your device uses motion effects to create the perception of depth on your Home screen and within apps. If you are sensitive to motion effects or screen movement on your iPhone, iPad or iPod touch, you can use Reduce Motion to turn off these effects.

To turn on Reduce Motion:

1. Go to Settings > Accessibility.
2. Select Motion, then turn on Reduce Motion.

When Reduce Motion is turned on, certain screen effects change or are disabled on your device, including:

* Screen transitions and effects use the dissolve effect instead of zoom or slide effects.
* Parallax effect, where your wallpaper, apps and alerts that move or shift slightly as you tilt your device, are disabled.
* Animation and effects in certain apps are disabled. For example, weather animations in the Weather app.

Hear iPad speak the screen, selected text, and typing feedback

Even if VoiceOver is turned off, you can have iPad speak selected text or the entire screen. iPad can also provide feedback and speak text corrections and suggestions as you type.

Change the speech settings

1. Go to Settings > Accessibility > Spoken Content.
2. Adjust any of the following:
	* *Speak Selection:* To hear text you selected, tap the Speak button.
	* *Speak Screen:* To hear the entire screen, swipe down with two fingers from the top of the screen.
	* *Speech Controller:* Show the controller for quick access to Speak Screen and Speak on Touch.
	* *Highlight Content:* iPad can highlight words, sentences, or both as they are spoken. You can change the highlight colour and style.
	* *Typing Feedback:* You can configure typing feedback for the onscreen and external keyboards and choose to have iPad speak each character, entire words, auto-corrections, auto-capitalizations, and typing predictions.

To hear typing predictions, you also need to go to Settings > General > Keyboards, then turn on Predictive.

* + *Voices:* Choose a voice and dialect.
	+ *Speaking Rate:* Drag the slider.
	+ *Pronunciations:* Dictate or spell out how you want certain phrases to be spoken.

Hear iPad speak

**Ask Siri.**Say something like: “Speak screen.” [Learn how to ask Siri](https://support.apple.com/en-gb/guide/ipad/ask-siri-ipad4bce70ef/14.0/ipados/14.0).

Alternatively, do any of the following:

* *Hear selected text:* Select the text, and then tap Speak.
* *Hear the entire screen:* Swipe down with two fingers from the top of the screen. Use the controls that appear to pause speaking or adjust the rate.
* *Hear typing feedback:* Start typing. To hear typing predictions (when turned on), touch and hold each word.

Turn on audio descriptions

On iPhone, iPad, or iPod touch, you can turn on audio descriptions to have scenes in videos described to you.

While watching movies, TV shows, or music videos in the Apple TV app or on your iPhone, iPad, or iPod touch, you can turn on audio descriptions. You can also turn audio descriptions on by default.

Turn on audio descriptions

If the video that you are watching includes audio descriptions:

1. While watching the video, tap the screen to reveal the playback controls.
2. Tap the Media Selection button to open the Audio & Subtitles menu.
3. Choose the audio-described track that you want to use.

Use audio descriptions by default

1. Go to Settings > Accessibility.
2. Tap Audio Descriptions.
3. Turn on Audio Descriptions.