

## PMRN Hardware & Connection Requirements

The table below contains the browser and client/software specifications recommended for optimal use of the **PMRN** system.

### Recommended Bandwidth Specifications

Type	Speed
External Connection to Internet	100 kbps per student or faster
Internal School Network	1000 kbps per student or faster

### Desktop, Laptop, Netbook & Thin Client / Virtual Desktop Infrastructure

Element	Version	Recommended Specifications
Operating System	Windows	Windows 7, Windows 8.1, Windows 10
	OS X / macOS	OS X 10.11.4 (El Capitan) or newer, tested through High Sierra
	Chrome OS	Chrome OS 53 or newer
Memory		1 GB RAM or greater
Connectivity	Wired or Wireless	Computers must be able to connect to the Internet
Screen Size		9.5 inch screen size or larger
Screen Resolution		1024 x 768 resolution or higher
Output	Sound	Sound must be enabled.
Input Device Requirements	Keyboard Mouse	The input device must allow students to: Select/deselect, drag and highlight text, objects and areas, enter letters, numbers and symbols and use Shift, Tab, Enter, Backspace and Delete.
	Bluetooth (Pairing)	To meet security guidelines, each Bluetooth/wireless keyboard and/or mouse must be configured to pair with only a single computer during assessment administration.
	Headphones/Earphones	Headphones are required for the <b>FAIR-FS</b> for all students.
	Microphone	Some student accommodations may require headphone/microphone equipment in order to enable speech to text input and/or text to speech output.

Supported Web Browsers by Operating System for the FAIR-FS

Operating System	Browser	Version (or newer)
Windows 7	Chrome	67.0.3396.87
	Firefox	60.0.2
	Internet Explorer	11.0.96.19
Windows 8	Chrome	67.0.3396.87
	Firefox	60.0.2
	Internet Explorer	11.0.96
Windows 10	Chrome	67.0.3396.99
	Firefox	61.0
	Internet Explorer or Edge	11.371.16299.0
	Edge	41.16299.371.0
OS X / macOS	Safari	11.1.2 (13605.3.8)
	Chrome	67.0.3396.99