

	Microsoft 70-480	Google Web Specialist	Progressive Web Apps & JavaScript 2018+
JavaScript/ECMAScript 5			
var	x	x	x
operators	x	x	x
conditional statements	x	x	x
for, for-in	x	x	x
functions	x	x	x
Object prototypes	x	x	x
Events, incl. phases	x	x	x
Array	x	x	x
JavaScript/ECMAScript 2015 (6)			
let, const		x	x
arrow functions		x	x
default & rest parameters, spread operator		x	x
template literals (strings)		x	x
destructuring: Object & Array		x	x
modules		x	x
classes		x	x
iterators, for-of		x	x
Map & Set		x	x
Promises (then, catch)		x	x
Array (from, find, findIndex, fill)		x	x
JavaScript/ECMAScript 2017			
Object static methods		x	x
async functions & await		x	x
JavaScript/ECMAScript 2018			
Object rest & spread properties		x	x
async iterators, for-await-of (to fetch() in order)		x	x
Promises (finally)		x	x
JavaScript/ECMAScript 2019 and beyond			
class properties		x	x
Events			
Event phases	x	x	
Keyboard	x	x	x
Mouse	x	x	x
Touch		x	
Pointer		x	
HTML 5.2			
DOM manipulations	x	x	x
Elements	x	x	
custom data attributes	x	(annex)	
Forms	x	x	
Form validation	x	x	
Input attributes (type, pattern, name, etc.)	x	x	
CSS			
Vendor prefixes	x	x	
selectors	x	x	
pseudo classes	x	x	
pseudo elements	x	x	
Custom properties (Variables)		x	
rounded comers & drop shadows	x	(mention)	
text styling	x		
units (px vs em / rem)		x	
calc()		x	
Web Font	x	x	
Transitions	x	(annex)	
Transformations: Translations	x	(annex)	
Transformations: Scaling	x	(annex)	
Transformations: Rotations	x	(annex)	
Transformations: Skewing	x	(annex)	
Keyframe animations	x		
Filters		(annex)	
Responsive Layout			
CSS Column layout	x	(annex)	
CSS Box Aligment		x	(annex)
CSS Flexbox (1 dimensional layout)	(mention)	x	(annex)
CSS Grid (2 dimensional layout)	(ie only, old spec)	x	(annex)
CSS Grid templates		x	
CSS Grid auto flow		x	
position: sticky		(annex)	
display: browser vs display: standalone		x	x
media queries	(annex)	x	
viewport tag	(annex)	x	
responsive images		x	(mention)

optimized images		x	
SVG images		x	
Picture element		x	(annex)
Storage & Cache			
IndexedDB API (version 2)	(version 1)	x	x
Storage API: local & session storage	x	x	x
Application Cache (deprecated)	x	(mention problems)	(mention problems)
Cache API		x	x
Google Workbox		(annex)	(annex)
Progressive Web Apps			
Web Worker	x	x	x
Service Worker		x	x
Online/Offline Status	x	x	x
Web App Manifest		x	x
Storing splash screen, icon, theme color		x	x
Add app to user's home screen		x	x
Push API		x	x
Notification API		x	x
Google Lighthouse		x	x
Publishing to the Microsoft Store		(annex)	(annex)
Microsoft PWABuilder		(annex)	(annex)
Front End Networking			
XMLHttpRequest	x	(mention)	(mention)
XMLHttpRequest CORS	x		
fetch()		x	x
fetch() CORS		x	x
Debugging & Testing			
Browser (Chrome) DevTools		x	x
Browser (Firefox) DevTools			
Console: Diagnose & Log		x	
Debugging JavaScript		x	x
Debugging Service Workers		x	x
Debugging fetch() errors		x	x
Testing different devices & speeds		x	
Writing unit tests		x	x
Performance			
Compressed/minified JS/HTML/CSS		x	JS only
Inline vs separate JS/CSS		x	JS only
Async JS loading		x	x
Measurements		x	x
Accessibility			
tab navigation: logical order		x	
tab navigation: skip navigation links		x	
tab navigation: skip hidden content		x	
ARIA: Text alternatives to visible content	(annex)	x	
ARIA: Timely alerts for urgent messages	(annex)	x	
Color contrast & Accessibility best practices		x	
reduced motion media query		x	
Video & Audio			
Audio element	x	x	
Video element	x	x	
Video subtitles (WebVTT)		x	
picture-in-picture		(annex)	
Graphics			
Canvas element	x		
Canvas drawing	x		
Canvas text	x		
SVG element	(annex)		
jQuery			
selectors	x		
DOM manipulations	x		
events	x		
Ajax HTTP requests	x		
Miscellaneous			
Drag & Drop	x	(annex)	
Files	x	(annex)	
Geolocation	x	(annex)	
Internationalization API		(annex)	
Payment Request API		(annex)	
Web Sockets	x	(mention)	