10% - //HTML: code used inside the <body> 5% - //INPUT: trigger functions and read information 5% - //OUTPUT: code inside the <script> **Choose any FIVE options Choose any FIVE options Choose any TEN options** communication ____ Trigger things by clicking on an HTML element: ___ Outputs inside an html tag: ___ Contains one or more linked images: **Use ALL TWENTY skills** document.getElementById('exampleId').innerHTML document.getElementById(...).onclick = exampleFunction; ___ Contains a button: <button> ____ Adds/removes/changes an image: ____ Trigger things (like the whole page) when they finish loading: ___ Contains a text input line: <input> document.body.onload = exampleFunction() document.getElementById('exampleId').src Contains a text input area: <textarea> ____ Trigger things by changing the contents of an input line or area: ___ Changes the position of an element: Contains a link to another document: document.getElementById(...).onchange = exampleFunction; document.getElementById('exampleId').style.top | .left Contains a header: <h1> | <h2> | <h3> | <h4> | <h5> | <h6> ____ Read information from an input line: ___ Changes the style of an element: _ Contains a paragraph: document.getElementById('inputId').value document.getElementById('exampleId').style.backgroundColor ___ Contains a line break:
 ____ Read information from the keyboard: ____ Uses animation to change position: Contains strong or emphasized text: | window.onkeydown = function (keyEvent) { ... } \$('#exampleId').animate(_ Contains a span or div: | <div> ____ Trigger a function by mousing over or mousing out: ___ Contains a list of items: document.getElementById(...).onmouseover = exampleFunction; '+=100px', top: ___ Contains a table: left: '-=100px', ____ Trigger a function by moving the mouse: ____ Contains HTML unicode characters: J document.onmousemove = function (mouseEvent) { ... } Contains an HTML canvas: <canvas> ____ Trigger a function by pressing the mouse button: _ Contains Scalable Vector Graphics: <svg> duration: 1000, document.onmousedown = function () { ... } ____ Contains a playable mp3 file: <audio> easing: 'linear' ____ Read the height or width of the window: ____ Contains other HTML as approved by instructor window.innerWidth | window.innerHeight ____ Read the current position of an element: Uses animation to change other style properties: document.getElementById('inputId').offsetTop | .offsetLeft 10% - //CSS: code must be used inside <style> \$('#exampleId').animate(____ Read the current position of the mouse pointer: **Choose any TEN options** { width: '100px' }, window.clientX | window.clientY $_{---}$ Apply a style to a tag: $p \{ ... \}$ duration: 1000, ____ Turning OFF the click or mouse functions of an element: ____ Apply a style to an ID: #exampleId { ... } easing: 'linear' document.getElementById('exampleId').onmouseover = '' ____ Apply a style to a class: .exampleClass { ... } ____ The program reads the time: new Date() ____ Positions something using % instead of px: left: 30%; ____ The user uploads a file: var reader = new FileReader(); _ Creates a pop up window: alert('Hi there!'); ____ Sets the family of text: font-family: ... ____ Gets data from other websites: \$.get('https://drapak.ca'); ____ Sends data to the developer's console: Sets the border: border: ... console.log('in mainProcedure...'); ___ Sets the color of text: color: ... ____ Reads other input as approved by instructor ___ Plays an audio clip: ____ Sets the background color of text: background-color: ... document.getElementById('audioId').play(); ____ Sets display or visibility: display: ... | visibility: ... 15% - //PROCESS: code inside the <script> __ appends an element to an id: ____ Sets the size of text: font-size: ... document.getElementById('outputId').appendChild(Choose any FIFTEEN options (some can be used more than once) ____ Sets the weight of text: font-weight: ... newElement ____ Uses a singular if statement: if (exampleVar == 1) { ... } ____ Sets the style of text: font-style: ... ____ Uses an if...else if...else chain: ____ Sets the width or height of an element: width: ... | height: ... if (example Var == 1) { ... } ____ Sets the positioning of an element: position: ... ___ Uses other output as approved by instructor else if (exampleVar == 2) { ... } ____ Positions an element using measurements: top:... | left: ... else { ... } ____ Sets the text alignment: text-align: ... | vertical-align: ... Uses a for loop: for (i in exampleArr) { ... } __ Sets opacity: opacity: ... ___ Uses a nested loop ____ Sets the stacking order: z-index: ... 20% - //Programming structure ____ Uses string addition: 'Hello' + ' world!' ____ Sets CSS animation: @keyframes ... Use ALL TEN skills (each skill has double weight) __ Uses a split function: var newArr = exampleVar.split(' '); ___ Links to a web font: @font-face ☐ Uses a function: ____ Uses a join function: var newStr = exampleArr.join(', '); ____ Uses other CSS as approved by instructor var exampleFunction = function () { ... } ____ ___ Uses arithmetic functions: 5 + 6 - 7 * 3 / 4 ☐ Use a function that accepts parameters/arguments as input: ____ Uses rounding functions: Math.round() | .floor() | .ceil() 5% - //INIT: code used inside the <script> var exampleFunction = function (exampleVariable) { ... } ____ Generates random numbers: Math.random() ☐ Uses a function that returns information: **Choose any FIVE** Uses .Math (powers, trig, etc.): Math.pow() | Math.PI return exampleVariable ___ Links to jQuery ____ Extracts numbers from a string: parseInt() | parseFloat() ____ Uses numerical variables: exampleNumber = 42; ____ Uses other array functions: exampleArr.pop() | .shift() | .unshift() ☐ Uses an object-oriented structure with a method: ____ Initializes a numerical variable as 0: exampleNumber = 0; ____ Uses animation callbacks: var exampleObject = { exampleMethod: function () {...} } \$('#exampleId').animate(Advice Uses string variables: exampleStr = 'Hello!'; ☐ Uses .this inside an object-oriented structure: {top: '100px'}, ____ Initializes a string variable as: exampleStr = "; this.row = this.row + 1; ____ Uses an array: exampleArr = ['Hello', ' world!']; ☐ Uses an object constructor: duration: 1000, ____ Initializes an array as []: exampleArr = []; var ExampleConstructor = function (exampleVar) { easing: 'linear', ____ Uses an object: exampleObj = { language: 'English', greeting: 'Hi!' }; this.exampleProperty = exampleVar; complete: function () { ... } ____ Initializes an object as {}: exampleObj = {}; ____ Uses a two dimensional array: exampleArr = [[1,2,3],[4,5,6]]; ____ Uses a complex data structure (eg: an array of objects): ☐ Uses a separate function/method for initializing data Uses setInterval() or setTimeout() exampleArr = [☐ Uses a separate function/method for reading input ____ creates a new element: document.createElement('img') { language: 'English', greeting: 'Hello!' }, ☐ Uses a separate function/method for processing information ____ Uses JSON to exchange data: JSON.parse() | .stringify() { language: 'German', greeting: 'Guten Tag!' } ☐ Uses a separate function/method for outputting information ____ Uses window.requestAnimationFrame() ____ Uses other variable structures as approved by instructor □ **Optional:** Uses other program structure as approved by instructor ____ Uses other process functions as approved by instructor

20% - //STYLE: Professional programming habits and

 □ Correct filename: exam-LastName.html □ The author of the program is indicated in the <head></head> □ Comment for the date started and dates modified, including what was modified □ All CSS code is in the <style> block of the file □ The <style> block is in the <head> of the file □ The <script> block is at the end of the <body> </td></tr><tr><td>☐ Avoids lines longer than 96 characters ☐ Space out mathematical operators: var newScore = oldScore + 30; ☐ Accurately indents code</td></tr><tr><th>☐ Comment for describing each //INIT: block, function or method ☐ Comment for describing each //INPUT: function or method ☐ Comment for describing each //PROCESS: function or method ☐ Comment for describing each //OUTPUT: function or method</th></tr><tr><th>☐ Descriptive comments for each loop ☐ Descriptive comments for each if statement</th></tr><tr><th>☐ Uses lower-case for HTML tags ☐ Uses camelCase for #id and .class names ☐ Uses camelCase for variable and function names ☐ Uses descriptive, full language variable names ☐ Uses descriptive, full language function and method names</th></tr><tr><th>10% - //CHECKLIST The last day of class will be devoted to completing this checklist</th></tr><tr><th>\square x 5 Completes and hands in an exam skills checklist \square x 5 Uses accurate line numbers to where a skill is used</th></tr><tr><th></th></tr><tr><th>Name:</th></tr></tbody></table></style>

- Keep your classmates informed about what you are doing.
- Get things working in bite-sized chunks.
- Use console logs to tell you where you are in your code.
- Use console logs to tell you what values your variables contain.
- Do CSS work when you are stuck or need a break.
- Plan your data structures carefully before you start.
- Have a clear definition of what you want input and what you want to output. This makes the process much easier.
- Save your work frequently. Submit your in-progress versions.
- When looking online for advice, keep in mind that the quality of publicly available code is iffy. Get me to take a quick look at it...