

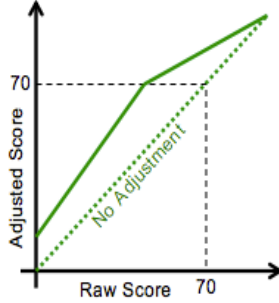
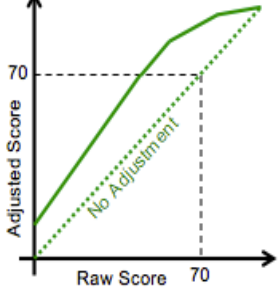
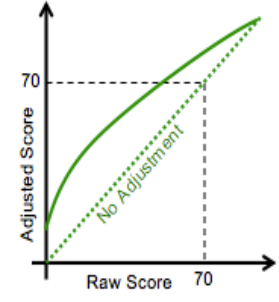


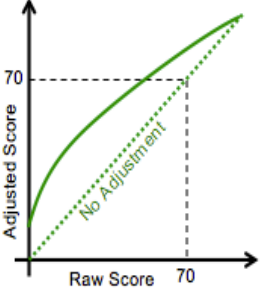
# Scale Explanation

Before you can set the scale for any assessment you should have an expectation:

- for the grade distribution prior to giving the assessment
- of how particular students will do on the assessment based on past performances, in- class participation, homework and out of class discussions
- of the percentage of As, Bs, Cs and failing.
- of the assessment's overall average.

Scale Options	Explanation	Graphically
Bottom Out Adjusted Score	<ul style="list-style-type: none"> <li>• Sets the lowest failing score; <i>Bottom Out Adjusted Score</i></li> <li>• Allows a student to recover from a bad test grade.</li> <li>• Helps only the low performing students.</li> </ul>	
Adjust 69 to	<ul style="list-style-type: none"> <li>• Allows scores of 69 to be adjusted to either 70 or 68</li> <li>• Awarding a 69 is very contentious</li> </ul>	
Number of Dropped Questions	<ul style="list-style-type: none"> <li>• Allows bad questions or questions with poor performance to be dropped.</li> </ul>	
No Scale <i>Traditional 70% to pass</i>	<ul style="list-style-type: none"> <li>• No consideration for test difficulty and instruction.</li> <li>• Appropriate for remembering level assessments.</li> </ul> <p>What to adjust on the spreadsheet highlighted in yellow below.</p> <p>Number of Questions or Points <b>50</b></p> <p>Number of Dropped Questions <b>0</b></p> <p>Bottom OUT Adjusted Score at <b>50</b> %</p> <p>Adjust 69 to <b>70</b></p>	<p>The graph shows a coordinate system with 'Raw Score' on the x-axis and 'Adjusted Score' on the y-axis. A solid green line starts at the origin and passes through the point (70, 70), indicated by dashed lines to the axes.</p>
Linear Scale	<ul style="list-style-type: none"> <li>• Test difficulty and instruction are evaluated and considered.</li> <li>• Set the lowest failing score; <i>Bottom Out Adjusted Score</i></li> <li>• Uniform scale between 100 and <i>Bottom Out Adjusted Score</i>.</li> <li>• Scale does NOT consider natural breaks in the grade distribution.</li> <li>• What to adjust on the spreadsheet is highlighted in yellow below.</li> </ul> <p>Number of Questions or Points <b>50</b></p> <p>Number of Dropped Questions <b>0</b></p> <p>Bottom OUT Adjusted Score at <b>50</b> %</p> <p>Adjust 69 to <b>70</b></p>	<p>The graph shows a coordinate system with 'Raw Score' on the x-axis and 'Adjusted Score' on the y-axis. A solid green line represents a linear scale, and a dotted green line represents 'No Adjustment'. Both lines pass through the point (70, 70), indicated by dashed lines to the axes.</p>

Scale Options	Explanation	Graphically															
70 Break Point Scale	<ul style="list-style-type: none"> <li>• Test difficulty and instruction are evaluated and considered.</li> <li>• Set the lowest passing score; <i>C-F Break</i></li> <li>• Uniform scale between 100 and 70</li> <li>• Uniform scale between 70 and <i>Bottom Out Adjusted Score</i>.</li> <li>• Scale does NOT consider natural breaks in the grade distribution.</li> <li>• What to adjust on the spreadsheet is highlighted in yellow below.</li> </ul> <p>Number of Questions or Points 50</p> <p>Number of Dropped Questions 0</p> <p>Bottom OUT Adjusted Score at 50 %</p> <p>Adjust 69 to 70</p> <table border="1"> <thead> <tr> <th>Power</th> <th colspan="2">Set Break Points</th> </tr> </thead> <tbody> <tr> <td>n= 0.48</td> <td>A-B Break</td> <td>80 %</td> </tr> <tr> <td>0 &lt; n &lt; 1</td> <td>B-C Break</td> <td>65 %</td> </tr> <tr> <td>100<sup>-n</sup> x<sup>n</sup></td> <td>C-F Break</td> <td>50 %</td> </tr> </tbody> </table>	Power	Set Break Points		n= 0.48	A-B Break	80 %	0 < n < 1	B-C Break	65 %	100 <sup>-n</sup> x <sup>n</sup>	C-F Break	50 %				
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A-B-C Break Point Scale	<ul style="list-style-type: none"> <li>• Test difficulty and instruction are evaluated and considered.</li> <li>• Set the grade breaks; <i>A-B Break</i>, <i>B-C Break</i> and <i>C-F Break</i>.</li> <li>• Scale <u>may</u> not be uniform between 100 and 70.</li> <li>• Uniform scale between 70 and <i>Bottom Out Adjusted Score</i>.</li> <li>• Scale <u>may</u> follow the natural breaks in the grade distribution.</li> <li>• What to adjust on the spreadsheet is highlighted in yellow below.</li> </ul> <p>Number of Questions or Points 50</p> <p>Number of Dropped Questions 0</p> <p>Bottom OUT Adjusted Score at 50 %</p> <p>Adjust 69 to 70</p> <table border="1"> <thead> <tr> <th>Power</th> <th colspan="2">Set Break Points</th> </tr> </thead> <tbody> <tr> <td>n= 0.48</td> <td>A-B Break</td> <td>80 %</td> </tr> <tr> <td>0 &lt; n &lt; 1</td> <td>B-C Break</td> <td>65 %</td> </tr> <tr> <td>100<sup>-n</sup> x<sup>n</sup></td> <td>C-F Break</td> <td>50 %</td> </tr> <tr> <td></td> <td>65 % Break</td> <td>40</td> </tr> </tbody> </table>	Power	Set Break Points		n= 0.48	A-B Break	80 %	0 < n < 1	B-C Break	65 %	100 <sup>-n</sup> x <sup>n</sup>	C-F Break	50 %		65 % Break	40	
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Square Root Scale	<ul style="list-style-type: none"> <li>• Test difficulty and instruction are evaluated and considered.</li> <li>• Common curving method.</li> <li>• Fairly uniform scale between 100 and 70.</li> <li>• Uniform scale between 70 and <i>Bottom Out Adjusted Score</i>.</li> <li>• Scale does NOT consider natural breaks in the grade distribution.</li> <li>• What to adjust on the spreadsheet is highlighted in yellow below.</li> </ul> <p>Number of Questions or Points 50</p> <p>Number of Dropped Questions 0</p> <p>Bottom OUT Adjusted Score at 50 %</p> <p>Adjust 69 to 70</p>																

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Power Scale	<ul style="list-style-type: none"> <li>• Test difficulty and instruction are evaluated and considered.</li> <li>• Variation of the Square Root Scale.</li> <li>• Fairly uniform scale between 100 and 70.</li> <li>• Uniform scale between 70 and <i>Bottom Out Adjusted Score</i>.</li> <li>• Scale does NOT consider natural breaks in the grade distribution.</li> <li>• What to adjust on the spreadsheet is highlighted in yellow below.</li> </ul> <p>           Number of Questions or Points <b>50</b>            Number of Dropped Questions <b>0</b>            Bottom OUT Adjusted Score at <b>50</b> %            Adjust 69 to <b>70</b> </p> <table border="1"> <thead> <tr> <th>Power</th> <th colspan="2">Set Break Points</th> </tr> </thead> <tbody> <tr> <td>n= <b>0.48</b></td> <td>A-B Break</td> <td><b>80</b> %</td> </tr> <tr> <td>0 &lt; n &lt; 1</td> <td>B-C Break</td> <td><b>65</b> %</td> </tr> <tr> <td>100<sup>-n</sup> x<sup>n</sup></td> <td>C-F Break</td> <td><b>50</b> %</td> </tr> </tbody> </table>	Power	Set Break Points		n= <b>0.48</b>	A-B Break	<b>80</b> %	0 < n < 1	B-C Break	<b>65</b> %	100 <sup>-n</sup> x <sup>n</sup>	C-F Break	<b>50</b> %	
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Standard Scale	<ul style="list-style-type: none"> <li>• Only applicable for 25 question assessments</li> <li>• Grade breaks; A-B Break, B-C Break and C-F Break, are set.</li> <li>• Bottom Out Score is set.</li> <li>• What to adjust on the spreadsheet is highlighted in yellow below.</li> </ul> <p><b>65</b> % Break <b>40</b></p>													
Manual Scale	<ul style="list-style-type: none"> <li>• Test difficulty and instruction are evaluated and considered.</li> <li>• Enter the desired scale in the blue cells on the far-right side of the spreadsheet.</li> <li>• Select Manual Scale from the choice of scales.</li> </ul>													