

## Computer Programs – Games and Simulations

### Judging Criteria Guidelines

Judging Criteria	Comprehensive	Detailed	Satisfactory	Limited	Very little/Not shown
<b>Written Report (1xA4 page), which should include ALL of the following:</b> <ul style="list-style-type: none"> <li>• Describe the program.</li> <li>• What does the user do? Where do they start, where do they finish?</li> <li>• Description of science in the program.</li> <li>• Describes how the program integrates the science.</li> <li>• Bibliography cited correctly.</li> <li>• Acknowledgements provided.</li> </ul>	<b>9-10</b> Have included all requirements (6 in total): <ul style="list-style-type: none"> <li>• Describe the program.</li> <li>• What does the user do? Where do they start, where do they finish?</li> <li>• Description of science in the program.</li> <li>• Describes how the program integrates the science.</li> <li>• Bibliography cited correctly.</li> <li>• Acknowledgements provided.</li> </ul>	<b>7-8</b> Have Included most (>3) requirements <b>(MUST include satisfactory explanation of the Scientific content of the program)</b>	<b>5-6</b> Have included 3 of the 6 requirements <b>(MUST include satisfactory explanation of the Scientific content of the program)</b>	<b>3-4</b> Have included <3 of the 6 requirements and/or <b>DOES NOT include a satisfactory explanation of the Scientific content of the program</b>	<b>0-2</b> Either <b>does NOT include the written explanation</b> or it is of extremely poor quality, including no explanation of Scientific content.
<b>Scientific content (age related)</b>	<b>10</b> Have included high level scientific content / principles for the program	<b>8</b> Have included sufficient scientific content / principles for the program	<b>5</b> Have included adequate scientific content / principles	<b>3</b> Minimum Scientific content / principle included unclear.	<b>0</b> No relevant scientific content / principles included
<b>Integration of science content in the program</b>	<b>10</b> Have a very sophisticated level of integration	<b>8</b> Have a high level of integration	<b>5</b> Have a reasonable level of integration	<b>2</b> Have some (low) level of integration	<b>0</b> No evidence of any integration
<b>Understanding of the Science in the program</b>	<b>10</b> Have a very high level of understanding of the Scientific content/principles in the program.	<b>8</b> Have a high level of understanding of the Science content/principles in the program.	<b>5</b> Have a reasonable level of understanding of the Science content/principles in the program.	<b>3</b> Have a minimum understanding of the Science content/principles in the program.	<b>0</b> Show no evidence of understanding of the Scientific content/principles in the program.
<b>Extent of program development</b>	<b>10</b> Comprehensive program. Extensively and logically developed. Excellent/sophisticated skills.	<b>8</b> Program in general well developed. Very good skills for age	<b>6</b> Basic Program. Basic range of skills.	<b>3</b> Program shows evidence of thoughts. Limited range of skills.	<b>1</b> Incomplete program. skills below standard for age.
<b>Presentation, Graphics, navigation, multi-media</b>	<b>10</b> Sophisticated and varied use of graphics. Eye catching / stimulating & User friendly. <i>Game:</i> Navigation clear and easily followed. <i>Simulation:</i> Well placed & sequenced.	<b>8</b> Very good use with some variety in graphics. Directions / sequence / content can be followed however the program would benefit from some further development	<b>5</b> A good but limited range of graphics used. Some clear indication of direction.	<b>3</b> Graphics unclear and hard to follow but have evidence of the direction it is going.	<b>1</b> Graphics unclear and hard to follow. Show no real indication of where it is going.
<b>Ease and enjoyment of use</b>	<b>10</b> Excellent. Lots of fun, very engaging, easy to use.	<b>8</b> Enjoyable independent usage, smooth, intuitive and engaging.	<b>5</b> Demonstrates smooth operation but lacks user engagement in places.	<b>3</b> Limited use of program, still under development, little engagement.	<b>1</b> Unclear. Very little planning and preparation. Program couldn't be used independently of designer.
<b>Level of interaction</b>	<b>10</b> Stimulating program. <i>Game:</i> High level of interaction <i>Simulation / Presentation:</i> High interest level.	<b>8</b> The level of interaction used is appropriate to the program.	<b>6</b> A good level of interaction.	<b>3</b> A basic level of interaction.	<b>1</b> Very low level. <i>Game:</i> Low level of interaction <i>Simulation:</i> Some interaction would benefit the program.
<b>Innovation, originality and creativeness</b>	<b>10</b> Highly original, creative and innovative.	<b>8</b> Original ideas with many original input from student.	<b>5</b> Program idea is not original but student has some original input in developing the program.	<b>3</b> Program idea is not original but student has some input in developing the program.	<b>1</b> A common idea with no original input from student.