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Cellular Respiration Webquest

by
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Location

WebQuest Description: This webquest will allow the user to research and understand the underlying chemical processes by which cells get energy by the production of ATP in the mitochondria.
Grade Level: 9-12
Curriculum: Science
Keywords: cellular respiration, respiration, glycolysis, krebs cycle, citric acid cycle, electron transport chain, chemiosmosis, atp synthase,
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Evaluation Details

Evaluated By:
Evaluated On:

Title Page	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Title	No title given for the webquest, or selected title is completely irrelevant to the webquest.	Title is given for the webquest, and somewhat relevant to the topic.	Title is given for the webquest, and very relevant to the topic.	
Description	No description given for the webquest, or description is completely irrelevant is very brief.	Webquest description is provided but does not provide adequate summary of webquest.	Webquest description provides a detailed summary of webquest.	
Grade Level	No grade level range is assigned to this webquest, or selected grade level is not appropriate for the webquest.	Grade level range is selected for the webquest and somewhat appropriate for the webquest.	Grade level range is selected for the webquest and very appropriate for the webquest.	
Keywords	No keywords are provided for this webquest, or selected keywords are irrelevant to the webquest.	Keywords are provided for this webquest, and selected keywords are somewhat relevant to the webquest.	Keywords are provided for this webquest, and selected keywords are very relevant to the webquest.	

Comments for **Title Page**

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Introduction	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Motivational Effectiveness of Introduction	Introduction is purely factual, with no appeal to learners' interest or a compelling question or problem.	Introduction relates somewhat to the learners' interests and/or describes a compelling question or problem.	Introduction draws the reader into the lesson by relating to the learners' interests or goals and engagingly describes a compelling essential question or problem.	

Comments for **Introduction**

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Task	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Clarity of Task	After reading the task, it is still unclear what the end/culminating project of the webquest will be.	The written description of the task adequately describes the end/culminating project, but does not engage the learner.	The written description of the end/culminating product describes clearly the goal of the webquest.	

Task	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Cognitive Level of Task	Task does not require synthesis of multiple sources of information (transformative thinking). It is simply collection of information or answers from web.	Task requires synthesis of multiple sources of information (transformative thinking) but is limited to in its significance and engagement.	Task requires synthesis of multiple sources of information (transformative thinking) and it is highly creative, goes beyond memorization, and engaging.	
Cognitive Level of Learners	Task is not realistic, not doable, and not appropriate to the developmental level and other individual differences (age, social/culture, and individual differences) of students with whom the webquest will be used.	Task is realistic, doable, but limited in its appropriateness to the developmental level and other individual differences (age, social/culture, and individual differences) of students with whom the webquest will be used.	Task is realistic, doable, and appropriate to the developmental level and other individual differences (age, social/culture, and individual differences) of students with whom the webquest will be used.	

Comments for **Task**

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Process	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Clarity of Process	Process page is not divided into sections or pages where each group/team or student would know exactly where they were in the process and what to do next. Process is not clearly organized.	Process page is divided into sections or pages where each group/team or student would know exactly where they were in the process and what to do next. Process is organized with specific directions that also allow choice/creativity.	Process page is divided into sections or pages where each group/team or student would know exactly where they were in the process and what to do next. Every step is clearly stated.	
Scaffolding of Process	Activities are not related to each other and/or to the accomplishment of the task.	Some of the activities do not relate specifically to the accomplishment of the task.	Activities are clearly related and designed from basic knowledge to higher level thinking.	
Collaboration	The process provides only few steps, no collaboration or separate roles required.	Some separate tasks or roles assigned. More complex activities required.	Different roles are assigned to help students understand different perspectives and/or share responsibility in accomplishing the task.	

Comments for **Process**

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Resources	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Relevance and Quality of Resources	Resources (web links, files etc.) are too limited, too many and/or too irrelevant for students to accomplish the task.	Resources (web links, files etc.) are sufficient but some resources are not appropriate (do not add anything new or contains irrelevant resources).	There is a clear and meaningful connection between all the resources and the information needed for students to accomplish the task. Every resource carries its weight.	
Quality of Resources	Resources (web links, files, etc.) do not lead to credible/trustable information. They do not encourage reflection such as interactivity, multiple perspectives, multimedia, current information such as use of googlemap, interactive databases, timelines, photo gallery, games/puzzles etc.	Resources (web links, files, etc.) are credible but they only provide facts. They do not encourage reflection such as interactivity, multiple perspectives, multimedia, current information such as use of googlemap, interactive databases, timelines, photo gallery, games/puzzles etc.	Resources (web links, files, etc.) are credible and provide enough meaningful information for students to think deeply with interactivity, multiple perspectives, multimedia, current information such as use of googlemap, interactive databases, timelines, photo gallery, games/puzzles etc.	
Organization of Resources	Resources are not organized or listed in a meaningful way (by topic, section, group or individual task). They are rather thrown all over with no reference. Students would not know exactly what resources are for what purposes (no description, or labels).	Resources are organized/listed in a meaningful way (by topic, section, group or individual task) but still some students might be confused as to know exactly what resources are for what purposes (no description, or labels given for each resource).	Resources are organized/listed in a meaningful way (by topic, section, group or individual task). Students would know exactly what resources are for what purposes (description, or labels given for each resource).	

Comments for **Resources**

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Evaluation	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Clarity of Evaluation	Criteria for success are not described. Students have no idea how they or their work will be evaluated/judged.	Criteria for success are stated but webquest does not apply multiple assessment strategies (use of rubric or checklist, reflection of project, pre-post assessments, quiz etc.).	Criteria for success are clearly stated and webquest applies multiple assessment strategies (use of rubric or checklist, reflection of project, pre-post assessments, quiz etc.).	
Relevancy of Evaluation	No connection between the learning goals and standards to be accomplished at the end of webquest and evaluation process. The evaluation instruments does not measure what students must know and be able to do to accomplish the task.	Limited connection between the learning goals and standards to be accomplished at the end of webquest and evaluation process. The evaluation instruments does not clearly measure what students must know and be able to do to accomplish the task.	Strong connection between the learning goals and standards to be accomplished at the end of webquest and evaluation process. The evaluation instrument clearly measures what students must know and be able to do to accomplish the task.	

Comments for **Evaluation**

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Conclusion	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Summary	No conclusion is given to present a summary of what was/were learned at the end of the activity or lesson.	Conclusion is given but does not give enough information of what was/were learned at the end of the activity or lesson.	Conclusion is given but with detailed information of what was/were learned at the end of the activity or lesson.	
Further Study and Transformative Learning	No further message, idea, question or resources are given to encourage learners to extend their learning and transfer to other topics.	Provides a message, idea, question or/and additional resources to encourage learners to extend their learning but it is not clear how the students' new knowledge can transfer to other topics.	Provides a message, idea, question or/and additional resources to encourage learners to extend their learning and clearly relates how the students' new knowledge can transfer to other topics.	

Comments for **Conclusion**

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Teacher Page	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Standards	Common core curriculum standard(s) are not listed for the webquest or listed curriculum standard(s) are irrelevant, too many.	Common core curriculum standard(s) are listed in words, not only numbers, and they are relevant, but the link(s) back to the standards website is missing.	Common core curriculum standard(s) are listed in words, not only numbers, and they are relevant and the link(s) back to the standards website is given.	
Credits	Credits / references are not given for any of the content used from external resources (graphics, clipart, backgrounds, music, videos etc.).	Credits / references are not given for all of the content used from external resources (graphics, clipart, backgrounds, music, videos etc.).	Credits / references are given for all of the content used from external resources (graphics, clipart, backgrounds, music, videos etc.).	

Comments for **Teacher Page**

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Overall Design	Unacceptable (0)	Acceptable (1)	Target (2)	Score
Use of Graphics	Inappropriate selection and use of graphic elements (irrelevant, distracting and/or overuse of images.). The graphics are not supportive of the webquest and do not give students information or perspectives not otherwise available.	Appropriate selection and use of graphic elements (relevant, not distracting and/or not overused) but the graphics are not supportive of the webquest and do not give students information or perspectives not otherwise available.	Appropriate selection and use of graphic elements (relevant, not distracting and/or not overused). The graphics are supportive of the webquest and give students information or perspectives not otherwise available.	
Spelling and Grammar	There are serious spelling and/or grammar errors in this webquest that distract from the meaning and don't model appropriate language.	There are some minor spelling or grammar errors but they are very limited and do not distract from the meaning.	The spelling and grammar has been checked carefully and there are no errors.	
Consistent Look and Feel	The webquest does not have a consistent look and feel (fonts, colors etc.) and does not provide consistent working navigation from page to page.	The webquest has somewhat consistent look and feel (fonts, colors etc.) and provides somewhat consistent working navigation from page to page.	The webquest has a consistent look and feel (fonts, colors etc.) and provides consistent working navigation from page to page.	
Working Links and Use of Tables	There are serious number of broken links, misplaced or missing images, badly sized tables etc. that makes webquest ineffective to navigate.	There are some broken links, misplaced or missing images, badly sized tables but does not make webquest ineffective to navigate.	No mechanical problems noted.	

Comments for **Overall Design**

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Overall Comments

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Scores Received

Points:_____ || Percentage:_____

This WebQuest is created and published by candace breen using zWebQuest (http://zunal.com)
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