

Science Grade 9						
Life Science: Reproduction and Human Development (RE)						
Outcome		1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4-Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.	
<b>RE9.1</b> Examine the process of and influences on the transfer of genetic information and the impact of that understanding on society past and present.	Process of transfer of genetic information	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can differentiate chromosomes, genes, and DNA.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>differentiate</b> chromosomes, genes, and DNA.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>describe</b> the process of the transfer of genetic information in humans and other living things.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>apply the understanding of process</b> of the transfer of genetic information in humans and other living things <b>to my own family or other specific context</b>.</li> </ul>	
	Influences on the transfer of genetic information	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can <b>identify some</b> of the factors that might influence the transfer of genetic information.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify some</b> of factors that might influence the transfer of genetic information.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>explain many factors</b> that might influence the transfer of genetic information.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>weigh the importance of the factors</b> that might influence the transfer of genetic information, <b>and support my position</b>.</li> </ul>	
	Impact of that understanding	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can explain the impact of the understanding of the transfer of genetic information on society past <b>OR</b> present, <b>with some detail</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can explain the impact of the understanding of the transfer of genetic information on society past <b>OR</b> present, <b>with some detail</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>explain</b> the impact of the understanding of the transfer of genetic information on society past <b>AND</b> present, <b>with examples and detail</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>predict</b> the impact of the understanding of the transfer of genetic information on society in <b>the future, with examples and detail</b>.</li> </ul>	
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RE9.2 Observe and describe the significance of cellular reproductive processes, including mitosis and meiosis.	Observation of the process	<ul style="list-style-type: none"> <li>With help, I can <b>communicate my observations</b> of the stages of cellular reproductive processes, both mitosis <b>AND</b> meiosis.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>communicate my observations</b> of the stages of cellular reproductive processes, both mitosis <b>AND</b> meiosis.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>describe my observations</b> of the stages of cellular reproductive processes, both mitosis <b>AND</b> meiosis.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>make connections</b> between cellular reproductive processes such as mitosis and meiosis and scientific issues such as cancer.</li> </ul>	
	Significance	<ul style="list-style-type: none"> <li>With help, I can <b>outline a few reasons</b> why cellular reproductive processes, including mitosis and meiosis, are important.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>outline several reasons</b> why cellular reproductive processes, including mitosis and meiosis, are important.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>explain in detail many reasons</b> why cellular reproductive processes, including mitosis and meiosis, are important.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>categorize the reasons</b> why cellular reproductive processes, including mitosis and meiosis, are important, and <b>draw conclusions</b> from that process.</li> </ul>	
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<b>RE9.3</b> <b>Describe the processes and implications of sexual and asexual reproduction in plants and animals.</b>	Processes	<ul style="list-style-type: none"> <li>I can describe <b>a few</b> processes of sexual <b>OR</b> asexual reproduction in plants and animals.</li> </ul>	<ul style="list-style-type: none"> <li>I can describe <b>a few</b> processes of sexual <b>AND</b> asexual reproduction in plants and animals.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>describe several</b> processes of sexual and asexual reproduction in plants and animals.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>compare</b> the various processes of sexual and asexual reproduction in plants and animals.</li> </ul>	
	Implications	<ul style="list-style-type: none"> <li>I can describe some implications of sexual <b>OR</b> asexual reproduction of plants and animals.</li> </ul>	<ul style="list-style-type: none"> <li>I can describe <b>some</b> implications of sexual <b>AND</b> asexual reproduction of plants and animals.</li> </ul>	<ul style="list-style-type: none"> <li>I can describe <b>several</b> implications of sexual and asexual reproduction of plants and animals, <b>with specific examples and detail.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can accurately describe the implications of sexual and asexual reproduction, and evaluate their effectiveness on the populations of plants and animals, <b>with specific examples and detail.</b></li> </ul>	
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<b>RE9.4</b> <b>Analyze the process of human reproduction, including the influence of reproductive and contraceptive technologies.</b>	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can outline the major stages of human reproduction.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>outline</b> the major stages of human reproduction.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>describe</b> the major stages of human reproduction.</li> </ul>	<ul style="list-style-type: none"> <li>• I can accurately <b>describe and represent the entire process of human reproduction</b> including the stages of human development from conception to birth.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can describe <b>some</b> influences of reproductive <b>OR</b> contraceptive technologies on human reproduction.</li> </ul>	<ul style="list-style-type: none"> <li>• I can describe <b>some</b> influences of reproductive <b>OR</b> contraceptive technologies on human reproduction.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>explain</b> the influences of reproductive <b>AND</b> contraceptive technologies on human reproduction, <b>with detail</b>.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>defend a position on ONE controversy regarding reproductive or contraceptive technologies that challenges social and cultural norms, with support in examples, details, and statistics.</b></li> </ul>
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