



Oxford City Schools

# Proficiency Scale

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**GRADE LEVEL: 9    COURSE NAME: Biology**  
**MEASUREMENT TOPIC: Express Genes**

<b>4</b>	In addition to Score 3, the student makes in-depth inferences and applications. <ul style="list-style-type: none"><li>• Apply genetic technology to solve a real world problem</li></ul>
<b>3</b>	The student can: <ul style="list-style-type: none"><li>• <b>Obtain, evaluate, and communicate information regarding how DNA and genetic technology apply to daily life.</b></li><li>• <b>Explain the regulatory role of proteins* in the expression of genes.</b><ul style="list-style-type: none"><li>• enzymes</li><li>• structural proteins</li><li>• hormones</li><li>• receptors</li></ul></li></ul>
<b>2</b>	The student can: <ul style="list-style-type: none"><li>• Explain the importance of RNA serving as a template of the DNA sequence.</li><li>• Transcribe and translate genes.</li><li>• Identify a gene within a visual model, and identify the product of gene expression.</li></ul>

**1**

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

**Key Vocabulary:**