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Biology Aug 02 2019 Endorsed by Cambridge International Examinations, the Essential Science for Cambridge Secondary 1 series provides complete curriculum framework coverage for Stages 7-9. It has been written by an experienced author team and provides a seamless link into Cambridge IGCSE, maximising students' potential. The Stage 9 Biology Workbook supports and supplements the Stage 9 Biology Student Book, with engaging exercises and homework to support the curriculum framework. The text provides space for students' working and answers as well as for teacher feedback.

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function of fluorescent proteins, the conceptual basis of PCR, the function of restriction enzymes and their use in engineering, the design of the mutagenesis of fluorescent proteins through Gibson assembly, analysis of an iGEM device, the design of a Golden Gate assembly of gene parts, epigenetic inheritance in imprinted diseases, analysis of the genetics of cancer (childhood vs. adult; inherited predisposition vs. sporadic), genome instability at telomeres, evaluation of next-generation DNA sequencing strategies, and the design of a CRISPR RNA to cure a genetic disease. A subset of the class activities focuses on pre- or post-experiment analyses that could either stand alone or could be used as a conceptual framework around which experiments could be conducted. Suggested experiments and other supporting materials are provided on the author's website, <https://hackettmolecularbiology.blogspot.com/>. Because the paperback workbook is printed in black and white to reduce cost to the student, color images for the one activity (fluorescent proteins) that would be best in color are also provided on the author's website and the Kindle eBook includes these images in color. CLASSROOM DISCUSSION QUESTIONS: These open-ended questions serve as the basis for class discussions following Molecular Biology: Concepts for Inquiry textbook reading assignments. These readings and discussions substitute for most direct lecture in explaining concepts and they are also accompanied by online self-assessment reading comprehension quizzes. The author will distribute quiz questions to instructors for their own editing and distribution or individuals may take the author's version of quizzes. UNIT SELF-ASSESSMENTS: Students can assess their overall conceptual understanding through these assessment questions and the answers that are provided. APPENDICES AND REFERENCE MATERIALS: Self-assessment answers, guidelines for basic molecular biology laboratory techniques including PCR and restriction digests, explanations of the function of bacterial and phage promoters commonly used in engineering, list of commonly-used restriction enzymes, structures of amino acids, genetic code, periodic table, and other references. AUTHOR RECOMMENDATIONS: 1) Because it is intended that students will write in this workbook, purchasing the paperback version is recommended. The Kindle eBook is available as a free MatchBook after purchase of the paperback. 2) If you are studying on your own instead of using this workbook as part of a class, you might consider purchasing the teacher's guide, Molecular Biology Concepts for Inquiry: A Guide to Inquiry. The teacher's guide, available June-July 2019, will contain the contents of this workbook, answers, commentary, and notes to the teacher about how to teach Molecular Biology through Inquiry and suggestions on how to guide students in the classroom.

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