PLTW Design Copley

# MYP Year 1-2 16-17 : Principles of Biomedical Science

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| **Name of unit** | **Key concept** | **Related concepts)** | **Global context** | **Statement of inquiry** | **Objectives** | **Approaches to learning skills** | **Content (where applicable)** |
| The Mystery | Identity  Connections | Perspective Collaboration | Identities Relationships | Students will collaborate and collect evidence from the scene of a mysterious death to develop theories of the cause of death. | A, B | Collaboration  Organization  Critical thinking | [**Lesson 1.1 Investigating the Scene**](https://pltw.instructure.com/courses/205668/modules/929195)[**Lesson 1.2 DNA Analysis**](https://pltw.instructure.com/courses/205668/modules/929196)[**Lesson 1.3 The Findings**](https://pltw.instructure.com/courses/205668/modules/929197) |
| Diabetes | Adaptation | Form Function | Identities and Relationships  Scientific Technical Innovation | What is diabetes and how do people adapt to the disease? | A, B, C | Communication  Collaboration  Creative Thinking | [**Lesson 2.1 What Is Diabetes**](https://pltw.instructure.com/courses/205668/modules/929198)[**Lesson 2.2 The Science of Food**](https://pltw.instructure.com/courses/205668/modules/929199)[**Lesson 2.3 Life With Diabetes**](https://pltw.instructure.com/courses/205668/modules/929200) |
| **Sickle Cell Disease** | Identity  Relationships | Patterns | Identities and Relationships | The inheritance of disease is dictated by the role and structure of DNA. | A, D | Communicate  Reflection  Info Literacy | [**Lesson 3.1 The Disease**](https://pltw.instructure.com/courses/205668/modules/929201)[**Lesson 3.2 It's In the Genes**](https://pltw.instructure.com/courses/205668/modules/929202)[**Lesson 3.3 Chromosomes**](https://pltw.instructure.com/courses/205668/modules/929203)[**Lesson 3.4 Inheritance**](https://pltw.instructure.com/courses/205668/modules/929204) |
| **Heart Disease** | Form | Function | Scientific Technical Innovation | The structure and function of the heart allows for intervention. | B, C, D | Creative Thinking  Organization | [**Lesson 4.1 Heart Structure**](https://pltw.instructure.com/courses/205668/modules/929205)[**Lesson 4.2 The Heart at Work**](https://pltw.instructure.com/courses/205668/modules/929206)[**Lesson 4.3 Heart Dysfunction**](https://pltw.instructure.com/courses/205668/modules/929207)[**Lesson 4.4 Heart Intervention**](https://pltw.instructure.com/courses/205668/modules/929208) |
| Infection  Post Mortem | Connections | Evaluation | Fairness and Development | Synthesis of evidence from the case allows students to present their theory of Anna’s death. | A, C, D | Transfer  Info Literacy  Communication | [**Lesson 5.1 Infection**](https://pltw.instructure.com/courses/205668/modules/929209)  [**Lesson 6.1 Analyzing Anna**](https://pltw.instructure.com/courses/205668/modules/929210) |