



# SKELETONS: Museum of Osteology

## Animal Pathology

*Project Lead the Way (PLTW)*

**Grade Levels: 9<sup>th</sup> – 12<sup>th</sup> Grade**

### English

#### **AS.R.1 - Reading**

AS.R.1: Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

#### **AS.R.7 - Reading**

AS.R.7: Integrate and evaluate content presented in diverse formats and media, including visually and quantitatively, as well as in words.

#### **AS.W.1 - Writing**

AS.W.1: Write arguments to support claims in an analysis of substantive topics or texts, using valid reasoning and relevant and sufficient evidence.

#### **AS.W.2 - Writing**

AS.W.2: Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.

#### **AS.SL.1 - Speaking and Listening**

AS.SL.1: Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.

#### **AS.SL.2 - Speaking and Listening**

AS.SL.2: Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.

#### **AS.SL.4 - Speaking and Listening**

AS.SL.4: Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.

## **Health Science**

### **1.31 Foundation: Standard 1: Academic Foundation**

1.31: Understand human anatomy, physiology, common diseases and disorders, and medical math principles. Demonstrate competency in basic math skills and mathematical conversions as they relate to healthcare.

- a. Metric system (such as: centi, milli, kilo)
- b. Mathematical (average, ratios, fractions, percentages, addition, subtraction, multiplication, division)
- c. Conversions (height, weight/mass, length, volume, temperature, household measurements)

### **2.11 Foundation Standard 2: Communications**

2.11: Demonstrate methods of delivering and obtaining information, while communicating effectively. Model verbal and nonverbal communication.

### **2.15 Foundation Standard 2: Communications**

2.15: Demonstrate methods of delivering and obtaining information, while communicating effectively. Practice speaking and active listening skills.

## **Next Generation Science Standards (NGSS)**

### **Science and Engineering Practice - Asking questions and defining problems**

Ask questions - that arise from careful observation of phenomena, or unexpected results, to clarify and/or seek additional information. - that arise from examining models or a theory, to clarify and/or seek additional information and relationships. - to determine relationships, including quantitative relationships, between independent and dependent variables. - to clarify and refine a model, an explanation, or an engineering problem.

### **Science and Engineering Practice - Constructing Explanations and Designing Solutions**

Apply scientific reasoning, theory, and/or models to link evidence to the claims to assess the extent to which the reasoning and data support the explanation or conclusion.

### **Science and Engineering Practice - Engaging in Argument from Evidence**

Construct, use, and/or present an oral and written argument or counterarguments based on data and evidence.

### **Science and Engineering Practice - Engaging in Argument from Evidence**

Make and defend a claim based on evidence about the natural world or the effectiveness of a design solution that reflects scientific knowledge and student generated evidence.