

# Principles of Biomedical Science (PBS)

## Common Core State Standards for Mathematics

### Lesson 1.1

#### N.Q .1 - Quantities

Use units as a way to understand problems and to guide the solution of multistep problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

#### A.SSE.1 - Seeing Structure in Expressions

Interpret expressions that represent a quantity in terms of its context.

#### A.CED.1 - Creating Equations

Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.

#### A.REI.3 - Reasoning with Equations and Inequalities

Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

#### A.REI.10 - Reasoning with Equations and Inequalities

Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).

#### S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 1.2**

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 1.3**

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# Principles of Biomedical Science (PBS)

## Common Core State Standards for Mathematics

### Lesson 2.1

#### N.Q .1 - Quantities

Use units as a way to understand problems and to guide the solution of multistep problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

#### N.Q .3 - Quantities

Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

#### S.ID.1 - Interpreting Categorical and Quantitative Data

Represent data with plots on the real number line (dot plots, histograms, and box plots).

#### S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# Principles of Biomedical Science (PBS)

## Common Core State Standards for Mathematics

### Lesson 2.2

#### N.Q .1 - Quantities

Use units as a way to understand problems and to guide the solution of multistep problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

#### N.Q .3 - Quantities

Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

#### A.SSE.1 - Seeing Structure in Expressions

Interpret expressions that represent a quantity in terms of its context.

#### A.CED.1 - Creating Equations

Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.

#### A.REI.1 - Reasoning with Equations and Inequalities

Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

#### S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 2.3**

#### **N.Q .2 - Quantities**

Define appropriate quantities for the purpose of descriptive modeling.

#### **N.Q .3 - Quantities**

Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

#### **A.SSE.1 - Seeing Structure in Expressions**

Interpret expressions that represent a quantity in terms of its context.

#### **S.ID.1 - Interpreting Categorical and Quantitative Data**

Represent data with plots on the real number line (dot plots, histograms, and box plots).

#### **S.IC.6 - Making Inferences and Justifying Conclusions**

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 3.1**

A.SSE.1 - Seeing Structure in Expressions

Interpret expressions that represent a quantity in terms of its context.

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 3.2**

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.



# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 3.3**

A.SSE.1 - Seeing Structure in Expressions

Interpret expressions that represent a quantity in terms of its context.

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# Principles of Biomedical Science (PBS)

## Common Core State Standards for Mathematics

### Lesson 3.4

#### A.SSE.1 - Seeing Structure in Expressions

Interpret expressions that represent a quantity in terms of its context.

#### S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

#### S.MD.5.a - Using Probability to Make Decisions

Find the expected payoff for a game of chance. For example, find the expected winnings from a state lottery ticket or a game at a fast-food restaurant.

#### S.MD.6 - Using Probability to Make Decisions

(+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator).

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 4.1**

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# Principles of Biomedical Science (PBS)

## Common Core State Standards for Mathematics

### Lesson 4.2

#### N.Q .1 - Quantities

Use units as a way to understand problems and to guide the solution of multistep problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

#### N.Q .2 - Quantities

Define appropriate quantities for the purpose of descriptive modeling.

#### N.Q .3 - Quantities

Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

#### A.SSE.1 - Seeing Structure in Expressions

Interpret expressions that represent a quantity in terms of its context.

#### S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

#### S.MD.7 - Using Probability to Make Decisions

(+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 4.3**

N.Q .2 - Quantities

Define appropriate quantities for the purpose of descriptive modeling.

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 4.4**

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 5.1**

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.

# **Principles of Biomedical Science (PBS)**

## **Common Core State Standards for Mathematics**

### **Lesson 6.1**

S.IC.6 - Making Inferences and Justifying Conclusions

Evaluate reports based on data.