IXL - GED Science Alignment

Human Health and Living Systems / Energy and Related Systems
Life Science, Physical Science, and Earth and Space Science
Scientific Theories and Scientific Processes

90 Minute Exam
Calculator allowed
Calculator Reference Sheet allowed
Multiple choice, fill in the blank, drag and drop, hot spot and drop down

Reading for Meaning in Science

Claims and Evidence in Science

Find evidence that supports a finding

Make sense of information that differs between various science sources

Science Vocabulary, Terms and Phrases

Understand and explain information from the passages

Understand symbols, terms, and phrases in science

Use scientific words to express science information

Designing and Interpreting Science Experiments

Science Investigations

Design a science investigation

Identify and explain independent and dependent variables

Identify and improve hypotheses for science investigations

Identify possible errors in a science investigation and change the design to correct them

Identify the strengths and weaknesses of different types of science investigations

Using Evidence to Draw Conclusions or Make Predictions

Decide whether conclusions are supported by data

Make conclusions based on data

Make predictions based on data

Science Theories and Processes

Understand and apply science theories and processes.

Using Numbers and Graphics in Science

Science Formulas and Statistics

Apply science formulas (the science formulas will be provided)

Use statistics to describe science data

Probability and Sampling in Science

Determine the probability or likelihood of something happening

Use a sample to answer science questions

Use counting to solve science problems

Presenting Science Information Using Numbers, Symbols and Graphics

Use graphics to display science information

Use numbers or symbols to display science information

Explain different ways in which scientific information is presented

Free Test Prep Sites

gedpracticetest.net
Test Prep Tool Kit - GED Science Practice Questions

Extra Review Outside IXL

Setting up Experiments
Developing a Hypothesis
Identifying Controls and Variables
Making Predictions
Evaluating Hypotheses
Evaluating Investigations
Recording Data
Analyzing Error
Analyzing Data
Drawing Conclusions

Atomic Element Symbols
Placebo
Science symbols
Momentum
Sample Size
Scientific Sampling
Statitically Significant

Di-hybrid Cross
Hardy-Weinberg Formula

Fact, Opinion and the Scientific Method

Fact vs. Opinion 1
Fact vs. Opinion 2
Fact vs. Opinion 3
Fact vs. Opinion 4
Scientific Method 1
Scientific Method 2
Scientific Method 3

Observation and Hypothesis

Making Observations
Comparing Observations 1
Comparing Observations 2
Observations to Support a Hypothesis 1
Observations to Support a Hypothesis 2
Observations to Support a Hypothesis 3
Observations to Support a Hypothesis 4

Inference and Evidence

Inference
Choosing Evidence 1
Choosing Evidence 2
Choosing Evidence 3
Choosing Evidence 4
Supporting Evidence 1
Supporting Evidence 2

Metric System, Measurements and Units

Length, Speed and Acceleration Units
Distance, Mass and Volume Units (US)
Distance, Mass and Volume Units (Metric)
Estimating Temperatures
Record and Graph Temperature
Temperature, Mass and Volume Units
Force, Energy and Electricity Units

Classification and Investigation

Living and Nonliving
Natural Energy Sources
Using Evidence to Classify
Laboratory Equipment
Experimental Protocol: Diffusion
Experimental Protocol: Evaporation
Exploring Chemical Structures and Properties

Scientific Words

Prefixes and Suffixes 1
Prefixes and Suffixes 2
Root Words
Scientific Names 1
Scientific Names 2

Maps

World Map
Natural Disaster Hazard Maps

Experimental Design and Variables

Experimental Design
Experimental Question
Experimental Design Materials 1
Experimental Design Materials 2
Experimental Design Materials 3
Independent and Dependent Variables 1
Independent and Dependent Variables 2
Independent and Dependent Variables 3
Evaluate Design 1
Evaluate Design 2
Evaluate Design 3
Evaluate Design 4

Control Groups, Evidence and Claims

Control and Experimental Groups
The Stronger Evidence 1
The Stronger Evidence 2
The Best Evidence 1
The Best Evidence 2
Analyze Evidence to Claim 1
Analyze Evidence to Claim 2
Supporting a Claim: Animal Behavior 1
Supporting a Claim: Animal Behavior 2
Supporting a Claim: Animal Behavior 3
Evaluate Claims: Ground Water
Evaluate Claims: Fossil Fuels

The Earth's Structure and Plate Techtonics

Erosion
Rock Cycle
The Water Cycle
Succession
Techtonic Plate Boundries
Techtonic Plate Features
Earth's Layers
Fossil Age
Earth's Seasons

Cells

Animal Cells 1
Animal Cells 2
Plant Cells 1
Plant Cells 2
Understanding cells

Energy and Waves

Energy Transformations
Amplitude, Wavelength and Frequency
Comparing Waves

Photosynthesis and Respiration

Photosynthesis 1
Photosynthesis 2
Photosynthesis 3
Identifying Photosynthetic Organisms
Cellular Respiration

Periodic Table and Chemistry

Atoms and Elements
Balancing Reactants and Prodcuts
Reactants and Products
Reactants and Products 2
Elements and Compounds 1
Elements and Compounds 2
Chemical Structures
Mixtures
Concentrations of Solutions
Physical and Chemical Properties
Conservation of Matter Graphs 1
Conservation of Matter Graphs 2

Evolution and Ecosystems

Genus and species
Natural Selection 1
Natural Selection 2
Water on Earth
Ecosystems 1
Ecosystems 2
Ecosystems 3
Symbiotic Relationships
Food Webs 1
Food Webs 2
Food Webs 3
Matter in Food Chains
Predicting Population Change 1
Predicting Population Change 2
Evaluating Animal Behavior
Climate Data

Scientific Notation and Calculations

Scientific Notation
Scientific Notation 2
Mean, Median, Mode and Range
Mass, Force and Acceleration
Velocity , Time and Distance
Velocity , Time and Distance 2
Velocity vs. Acceleration

Sampling and Data

Representative, Random and Biased Sampling
Biased Sampling
Data Comparison

Probability and Statistical Thinking

Certain, Probable, Unlikely and Impossible
Theoretical Probability
Statistical Questions

Genetics and Inheritance

Genotype and Phenotype
Dominant and Recessive
Punnett Squares 1
Punnett Squares 2
Punnett Squares 3
Understanding the Genetic Code
Genes and Environmental Factors and Plant Growth

Graphing

Interpret Bar Graphs 1
Interpret Bar Graphs 2
Interpret Bar Graphs 3
Interpret Bar Graphs 4
Interpret Bar Graphs 5
Create Bar Graphs 1
Create Bar Graphs 2
Create Bar Graphs 3
Bar Graph Comparisons 1
Bar Graph Comparisons 2

Interpret a Scatter Plot Graph 1
Interpret a Scatter Plot Graph 2
Scatter Plot Graph Predictions 1
Scatter Plot Graph Predictions 2
Correlation Coefficients 1
Correlation Coefficients 2
Create Scatter Plot Graphs
Interpreting Circle Graphs 1
Interpreting Circle Graphs 2
Rate of Change Graphs
Outlier Data
Outlier Data 2

Which Line Graph is Correct?
Interpret Line Graphs 1
Interpret Line Graphs 2
Double Line Graphs
Create Line Graphs
Create Double Line Graphs
Create Line Graphs 2
Choose the Best Type of Graph
Graphs of Functions
Interpreting Various Graphs