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Vocabulary

characteristic

Definition: A distinguishing quality

Context: A pair of factors determines each inherited characteristic.

chromosomes

Definition: Rod-shaped structures contained in a cell made up of a molecule of DNA threaded around proteins

Context: In females, the gene responsible for red eyes on one of the X chromosomes might be overshadowing the gene for white eyes on the other chromosome.

dominant

Definition: Of, relating to, or being an allele that produces the same phenotypic effect whether inherited with a homozygous or heterozygous allele; exercising the most influence or control

Context: Certain genes are dominant and others are recessive.

enzymes

Definition: Any of several complex proteins produced by cells that act as catalysts in specific biochemical reactions

Context: Genes direct the production of enzymes.

genes

Definition: Basic, functional units of heredity, each occupying a specific place on a chromosome

Context: In 1909 a Danish botanist coined the term "genes" to describe Mendel's factors in inherited traits.

heredity

Definition: Genetic transmission of characteristics from parent to offspring

Context: Fixed laws of nature govern heredity.

Academic Standards

National Academy of Sciences

The National Academy of Sciences provides guidelines for teaching science in grades K-12 to promote scientific literacy. To view the standards, visit this Web site:

<http://books.nap.edu/html/rses/html/overview.html#content>

This lesson plan addresses the following science standards:

- Science as Inquiry: Understanding about scientific inquiry



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Entropy & Free Energy HOMEWORK

Section 1

1. The following equation represents the essential change that takes place during the fermentation of glucose to ethanol: $C_6H_{12}O_6(aq) \rightarrow 2C_2H_5OH(l) + 2CO_2(g)$. Is ΔG° positive or negative? Explain.

Substance	S° (J/Kmol)
$CO_2(g)$	213.74
$H_2O(l)$	69.91
$H_2O(s)$	47.91

2. Calculate the change of entropy, ΔS° , at 25.0°C for the reaction in which urea is formed from NH_3 and CO_2 . (The standard entropy of urea is 174 J/molK).



3. By comparing the formulas for each pair of compounds, decide which is expected to have the higher entropy. Assume both are at the same temperature.

- $O_2(g)$ or $O_3(g)$
- $HCl(g)$, $HCl(l)$, or $HCl(s)$
- $NH_2Cl(s)$ or $NH_2Cl(aq)$
- $H_2O(g)$, $H_2O(l)$, or $H_2O(s)$

Substance	S° (J/Kmol)
$Cl_2(g)$	223.0
$Cl_2(l)$	96.9
$H_2O(g)$	188.8
$H_2O(l)$	69.9
$H_2O(s)$	47.9
$HCl(g)$	186.9
$HCl(l)$	96.9

4. Use S° values to calculate the entropy change, ΔS° , for each of the following processes and comment on the sign of the change.

- $KOH(s) \rightarrow KOH(aq)$
- $H_2(g) \rightarrow H_2(s)$
- $Br_2(l) \rightarrow Br_2(g)$
- $HCl(g) \rightarrow HCl(aq)$

Substance	S° (J/Kmol)
$H_2(g)$	131.0
$H_2(l)$	69.9
$H_2(s)$	37.1

5. Using standard entropy values, calculate the standard entropy change for a reaction forming one mole of $H_2(g)$ from $H_2(l)$ and $H_2(s)$.

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6001 Greatest Discoveries - Physics

While watching, complete this video guide.

Three things I knew that were confirmed in the video:

A. _____
 B. _____
 C. _____

Three things I didn't know but I now know because I watched the video:

A. _____
 B. _____
 C. _____

1. _____ is the study of the world around us.

2. Galileo learned that a heavier object seems to fall _____ than a lighter one because of air resistance.

3. Galileo / Descartes discovered the law of universal gravitation, which applies to all objects in the universe.

4. Newton's second great discovery - the law of _____ - explains the movement of all physical objects.

5. Every action has an equal and opposite _____.

6. The 2nd law of thermodynamic states that in any energy exchange, some energy will be _____.

7. Einstein once said that all ideas should be presented to _____ and if they can't understand it, the theory is worthless.

8. _____ tests of different notes throughout the universe.

9. A _____ leg is the smallest leg possible in nature.

10. Einstein believed that light / light has both particle like and wave like properties.

11. Chockley discovered that the _____ is made up of protons and neutrons.

12. Superconductors allow an electric current to flow without losing any _____.

13. Murray Gell-Mann proposed that the neutron and proton are composed of smaller particles called quarks / quarks.

14. There are four fundamental forces of nature: weak force, strong force, electromagnetism, and gravity / thermodynamics.

15. The Theory of _____ unites all four forces of nature into a single experience.

Go to www.ck12.org/physics/6001 for more information. See www.ck12.org/physics/6001 for the activities.

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EN01 Astrobiology

While watching, complete this video guide.

Three things I knew that were confirmed in the video:

A. _____
 B. _____
 C. _____

Three things I didn't know but I now know because I watched the video:

A. _____
 B. _____
 C. _____

1. We search for living things among the stars, and we call this study _____.

2. There are over _____ billion stars in our galaxy alone.

3. We can't use a rocket to take us to the stars because the stars are too close / far away.

4. The rover was loaded with instruments that helped us look of Mars from earth, and examine them for signs of water or evidence of Martian life.

5. Extremophiles / Extremophiles are organisms that live in hostile environments.

6. The closest neighbor to earth is Mars, nicknamed the _____ planet.

7. There is good evidence that, at one time, _____ had a lot of water on its surface.

8. Acids and _____ usually react when combined, but without water, there's no way for electrons to get from one atom to another.

9. We should look for planets that contain _____ if we want to search for other life forms.

10. The _____ coming off the surface of a star is so intense, it incinerates molecules.

11. Astronomers have found about one hundred / hundred planets orbiting other stars.

12. In 1995, Swiss astronomers detected a planet orbiting a star much like our own _____.

13. As an object moves closer to you, its sound is higher pitched explained by the _____ Effect.

14. Stars without planets orbiting them spin evenly, while stars with planets _____.

15. The second Mars rover found small pebbles which appeared to be composed of quartz / basaltic which forms in water.

Go to www.ck12.org/astrobiology/EN01 for more information. See www.ck12.org/astrobiology/EN01 for the activities.

To split apart an atom 4. What two products are formed from the fission of uranium? Bill Nye shows the on-site disposal and storage systems currently used for nuclear waste and also interviews an engineer working on the Yucca Mountain nuclear storage tunnels. Reactor, Generator, Cooling Towers 2. What starts the nuclear chain reaction? Burying under oceans or under remote islands, drop into Earth's crust, bury in polar ice caps 16. A method of changing a dangerous radioactive substance into a less dangerous one that will decay in a few hundred years What are two other ideas for dealing with nuclear waste? topics Site Navigation Main Page Anatomy & Physiology Biology Chemistry Environmental Science Sponsored Links This episode of The Eyes of Nye spends some time covering the basics of the nuclear fission chain reaction, but the majority of the episode actually focuses on nuclear waste. 300 000 tons 15. An accident would cause a nuclear disaster 17. 10 000 years 9. What materials are used to shield or block nuclear radiation? The answers to the worksheet questions are below: The Eyes of Nye Nuclear Energy 1. What are the three main sections of a nuclear power plant? Ten million times more waste 7. Where are most of the nuclear waste and spent fuel rods currently? No deaths in accidents in 50 years 20% of US energy production Can be used by terrorists Disposal is expensive 14. Stainless steel, concrete 10. 24 000 years 12. a. Dry site b. Remote c. Stable rock formation 11. What is the half-life of Plutonium, part of nuclear waste? Why is Yucca Mountain such an attractive location for nuclear waste storage? Why can't the nuclear waste be shot into space? Energy as Heat Shoots out another neutron 5. How much nuclear waste is produced in 60 years of a power plant operating? How much total nuclear waste exists worldwide? Essential concepts: Nuclear energy, nuclear meltdowns, nuclear fission, nuclear reactors, nuclear waste, nuclear half-life. FREE Bill Nye* - Nuclear Energy - Worksheet/Video Guide *StarMaterials.com is not affiliated with Bill Nye, the Bill Nye website or the videos in any way! Use of the names and titles are for ease of use and for reference only. Describe transmutation. Why was the 10,000 year standard ruled invalid? Plutonium would still be very dangerous at 10 000 years. Uranium is bombarded by neutrons 3. What does fission mean? Follow the link below to access the video we watched in class. Give two positive and negative arguments involving the usage of nuclear energy. In reactor pools at the nuclear plant 8. What is the estimate for how long it takes nuclear waste to completely decay? 13. Enough waste to fit into a convenience store 6. How much waste would a coal plant produce?

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