

Darwin's Natural Selection Worksheet

Name _____

Read the following situations below and identify points of Darwin's natural selection.

- 1) There are 2 types of worms: worms that eat at night (nocturnal) and worms that eat during the day (diurnal). The birds eat during the day and seem to be eating ONLY the diurnal worms. The nocturnal worms are in their burrows during this time. Each spring when the worms reproduce, they have about 500 babies but only 100 of these 500 ever become old enough to reproduce.



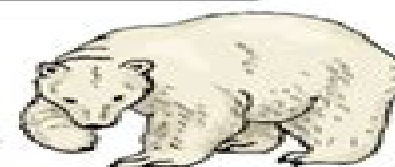
Identify a type of variation in the worms. _____

Which variation is most favorable? _____

In 50 years, what will natural selection have most likely done for the worms? _____

What adaptations might occur in the birds in 100 years? _____

- 2) There are 3 types of polar bears: ones with thick coats, ones with thin coats and ones with medium coats. It is fall, soon to be winter. The temperatures are dropping rapidly and the bears must be kept warm, or they will freeze to death. Many of the bears have had ~2 cubs each but due to the extreme temperatures, many mothers only have one cub left.



Identify a type of variation in the polar bears _____

Which variation is most favorable? _____

In 50 years, what will natural selection have most likely done to the polar bears? _____

- 3) In ostriches, there are 2 types: ones that run fast and those that run slowly. The fast birds can reach up to 40 miles an hour. Jackals love to eat ostrich, and they can reach speeds of up to 35-40 miles per hour. A flock of ostrich will lay ~ 10 eggs (each mother only lays 1), but many rodents break into the eggs and eat the fetus before they hatch.

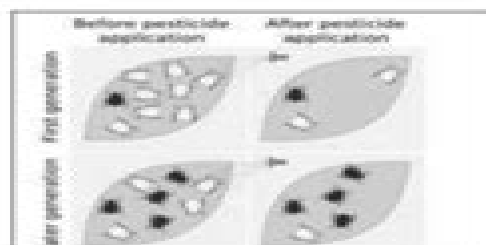


Identify a type of variation in the ostriches _____

Which variation is most favorable? _____

In 50 years, what will natural selection have most likely done to the ostriches? _____

What adaptation might occur in the jackals in 100 years? _____



#4: A population of insects is sprayed with a new insecticide. Most of the insects are killed but a few survive. In the next generation, many more of the insects are unaffected by the insecticide. Which of the following BEST explains these results?

- The insecticide caused a mutation in the species.
- A few insects in the first population were immune and passed this trait to their offspring.
- The insecticide caused a side effect of immunity that was passed on to the next generation of insects.
- The insects learned to fight off the insecticide.

Darwins Natural Selection Case Studies Worksheet Answers

Charles Darwin



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Charles Darwin's Natural Selection Charles Darwin, Robert C. Stauffer, 1975 *Charles Darwin's Natural Selection*
(Chap. 3-11) Being the 2. Part of His Big Species Book, Written from 1856 to 1858 Charles Darwin, Robert Clinton
Stauffer, 1975 Charles Darwin's "Natural Selection", Chapter 3-11 Charles Darwin, 1975 **CHARLES DARWIN'S**
NATURAL SELECTION ED. R.C. STAUFFER. Charles Darwin, **Charles Darwin's Works: The origin of species by**
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web compatibility has been demonstrated when y site compatibility was not available medications compatible in solution for 24 hours were assumed to be y site compatible medications compatible with 3 in 1 admixtures were assumed to be compatible with lipids alone 2 i incompatibility has been demonstrated

parenteral nutrition pn and drug compatibility - Aug 03 2022

web parenteral nutrition pn and drug compatibility the co infusion of drugs and pn should be avoided except for the exceptional circumstances outlined in this document pn solutions are diverse in their composition and compatibilities with drugs can never be guaranteed

physical compatibility of total parenteral nutrition and drugs in y - Feb 26 2022

web oct 7 2016 drug tpn ratios were estimated from a wide range of age and weight classes and the most extreme mixing ratios drug tpn tpn drug in addition to 1 1 were chosen assessment of potential precipitation was performed by subvisual particle counting visual examinations and measurements of turbidity and ph

total parenteral nutrition solutions king guide - Mar 30 2022

web total parenteral nutrition solutions present unique stability and compatibility problems due to the complexity of these

formulations 1542 1543 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1557 1558 the following are important considerations in the preparation and administration of tpn solutions

appendix d y site compatibility of medications with parenteral - Jul 14 2023

web compatibility and stability however most evaluate compatibility alone currently there are multiple resources to use
pastor c et al intravenous aminophylline in vitro stability of fat containing tpn ann pharmacother 1992 26 127 128 10 niemiec
pw jr vanderveen tw hohenwarter mw et al stability of aminophylline injection in three

tpn lipid y site compatibility cheo ed outreach - Feb 09 2023

web note in the parenteral manual monographs compatibility with parenteral nutrition is indicated as tpn amino acids dextrose and or lipids tpn refers to amino acids dextrose and fat emulsion if a drug is stated compatible in tpn it

parenteral nutrition solutions fat emulsion drug compatibility - Jun 13 2023

web drug compatibility guidelines pn solutions are very complex mixtures of different components including amino acids dextrose electrolytes minerals trace elements vitamins and sometimes other additives drugs such as heparin

parenteral nutrition recommendations for pediatric patients - Jun 01 2022

web patients 10 kg receive amino acid as trophamine patients must be ordered for 40 mg of cysteine for every 1 g of trophamine initiation 1 5 2 gm kg day advancement 0 5 1 gm kg day goal 1 5 3 gm kg day initiation 1 2 gm kg day advancement 0 5 1 gm kg day goal 1 5 2 5 gm kg day

bloomberg children s center y site compatibility chart - Jan 28 2022

web c compatible i incompatible cs compatible only if drugs mixed in ns cd compatible only if drugs mixed in dextrose c conc time dependent call pharmacy bloomberg children s center y site compatibility chart i cs 1 unit ml heparin pn no heparin pn with heparin intralipids fats

compatibility of intravenous medications with parenteral nutrition - Dec 07 2022

web oct 30 2012 abstract background and aim hospitalized patients requiring parenteral nutrition pn often need to receive intravenous iv medications as well y site administration is occasionally necessary but physicochemical incompatibilities can occur between the medications and pn

y site compatibility of medications with parenteral nutrition - Mar 10 2023

web c compatibility has been demonstrated when y site compatibility was not available medications compatible in solution for 24 hours were assumed to be y site compatible medications compatible with 3 in 1 admixtures were assumed to be compatible with lipids alone 1 i incompatibility has been demonstrated compatibility data not available

physical compatibility of total parenteral nutrition and drugs in y - Jan 08 2023

web physical compatibility of total parenteral nutrition and drugs in y site administration to children from neonates to

adolescents three drugs showed clear signs of precipitation when mixed with tpn and these products should not be co administered in the same infusion line

updated tpn compatibility tables paediatric injectable - Apr 11 2023

web rch parenteral nutrition pn and fat emulsion compatibility information

app y site compatibility chart with tpn reg 2014 05 pdf4pro - Dec 27 2021

web vch phc tpn y site compatibility chart 1 the piggy back infusion of lipid emulsion if any should be interrupted during co infusion of the 2 in 1 tpn with this medication 3 in1 travasol dextrose lipid emulsion additives all in one bag 2 in 1 travasol dextrose additives in one bag lipid bag administered separately via piggy back