

Name:\_\_\_\_\_

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## DNA, RNA, and Snorks

**Introduction:** In this simulation, you will examine the DNA sequence of a fictitious organism - the Snork. Snorks were discovered on the planet Dee Enae in a distant solar system. Snorks only have one chromosome with eight genes on it. Your job is to analyze the genes of its DNA and determine what traits the organism has and then sketch the organism (You can be creative here).

For simplicity, the gene sequences are much smaller than -real- gene sequences found in living organisms. Each gene has two versions that result in a different trait being expressed in the Snork.

Genes	Amino Acid Sequence	Description
Gene 1 - body covering	met-val - ser - leu	hairless
	met -val - ser - lys	hairy
Gene 2 - body style	met-tyr - pro - glu - glu - lys	plump
	met-val - pro - thr - glu - lys	skinny
Gene 3 - legs	met-leu - leu - leu - pro	3 legged
	met-leu - leu - ser - ala	2 legged
Gene 4 - head shape	met-ala - val - val	round head
	met-val - ala - ala	square head
Gene 5 - tails	met-his - ile	tail
	met-his - his	no tail
Gene 6 - body color	met-ser - pro - val	green & orange Hair   blue striped skin
	met-val - phe - tyr	red & orange Hair & purple polka dot skin
Gene 7 - eyes	met-asp - ile - leu - leu - pro - thr	small eyes
	met-asp - ile - pro - pro - pro - thr	large round eyes
Gene 8 - mouth	met-val - asp - asp - ser	small, circular mouth
	met-asp - asp - asp - ala	large, rectangular mouth
Gene 9 - ears	met-phe - ser - gly	pointed standing-up ears
	met-phe - phe - gly	rounded floppy ears
Gene 10 - arms	met-arg - tyr - cys - lys	long spaghetti like arms
	met-arg - arg - asp - thr	short stumpy arms

**Directions:**

Each of the following DNA samples was taken from volunteer Snorks. The DNA was then transcribed to its complimentary RNA strand. Your job is to:

1. Analyze the RNA sample and determine the phenotype (how the organism looks) based on the sequence.
  - a. Fill in the table with the appropriate amino acid and trait
  - b. Use the attached codon chart for help
  - c. Note: one or more of your Snorks may have a genetic mutation. If you find an amino acid sequence that does not match, give your Snork a new trait! Be sure to clearly mark this change in your table.
2. After you have determined the phenotype, draw each Snork on the back of this sheet under the appropriate heading.
  - a. Be colorful and creative

# Dna Rna And Snorks Worksheet Answers

**J Spring**



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web  $m \times c \times \Delta t$  equation 1 where m is the total mass of the solution solute plus solvent c is the specific heat of the solution and  $\Delta t$  is the observed temperature change the specific heat of the solution is generally assumed to be the same as that of *guided inquiry designing the ideal hand warmer* - Dec 27 2022

web the heat of reaction  $\Delta H_{\text{soln}}$  is written after the products in units of kJ mol rxn for example sodium hydroxide dissolves exothermically releasing 44.2 kilojoules per mole dissolved this process is represented as  $\text{NaOH (s)} \rightarrow \text{NaOH (aq)}$   $\Delta H_{\text{soln}} = -44.2 \text{ kJ mol}^{-1}$  write equations to similarly represent the dissolving process for

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web hand warmers are usually placed inside the gloves to keep your hands warm the heat keeping your hands warm is formed as a result of an exothermic reaction which occurs in a small packet hand warmers have 5 main ingredients in them salt carbon polypropylene vermiculite water and iron

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