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## Dna vs rna worksheet answers

Deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) are perhaps the most important molecules in cell biology and are responsible for the storage and reading of genetic information that underpins all life. They are linear polymers consisting of sugar, phosphate and bases, but there are some major differences that separate the two ones. This distinction allows the two molecules to work together and fulfill their essential roles. Here, we see five major differences between DNA and RNA. Before we explore the differences, we look at these two nucleic acids side by side. HELIX and basic structure of RNA and DNA. Comparison DNA CHART comparison DNARNNA. DNA by tharboxybos sugar containing oxygen-containing hydroxyl group by the whole NameDeoxyribonucleic acid ribonucleic resili is a more stable molecule than RNA, which is useful for molecules needed to maintain genetic information. RNA containing ribous sugar is more reactive than DNA and is not stable in alkaline conditions. A larger white paper groove of RNA means that it is more easily affected to attack by enzymes. Ultraviolet (UV) sensitivity DNA is vulnerable to damage caused by ultraviolet rays. RNA is more resistant to damage from UV light than DNA. What is the main difference between DNA and RNA? Functioning DNA encodes all genetic information and is a blueprint for all biological life. And it is only possible in the short term. In the long run, DNA is a storage device, a attack by biological flash drive that can deliver a blueprint of life between generation 2. RNA acts as a reader to decode this flash drive. This reading process is multi-level and has a special RNA for each step. Below you will learn more about the three most important types of RNA. Messenger RNA (mRNA) copies some of the genetic code, a process called transcription, which transfers these codes to the cell plant ribosome. Ribosomes are formed in the area of the nucleus, called nucleolus, before some proteins are exported to free floating cytoplasm. Other cellular ribosomes are tied to the richness retina, which is a membranous structure that processes proteins and helps them export them from cell. Sign in to personalize the content displayed on the /gghr.nih.gov/primer/basics/dna/ or www.nature.com/scitable/topicpage/chemical-structure-of-na-348

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