

# KEY

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1. What does DNA stand for?  
**Deoxyribonucleic acid**
2. What are the 4 nucleobases found in DNA?  
**Adenine, Thymine, Cytosine, and Guanine**
3. How much DNA (length-wise) is in each cell in your body?  
**3 meters**
4. What are proteins?  
**Proteins are long chains of amino acids and amino acids have specific characteristics**
5. What types are important under the classification theory of protein characteristics? What else can determine protein characteristics?  
**1. Amino acids  
2. Modifications**
6. What is a protein's role in the storage of your genetic code?  
**It stores it**
7. Describe molecular evolution theory.  
**A protein must have a mutation for both parents to contain the same trait**
8. How many nucleobases are in each cell?  
**3 billion**
9. If one cell's genome has four nucleobases, what does this mean?  
**It means it's a change in the nucleobase**
10. Phenylketonuria (PKU) is a disorder of a metabolic pathway. **Genes**
11. Why would nucleobases protect genes from degradation?  
**They produce specific proteins on their genes (enzymes)**
12. What is gene therapy?  
**Where researchers try to supply bodies of healthy genes to cells with mutated or infected genes**

(Continued on back)

# Astronomy Webquest Answer Key

**M Mosston**

## Astronomy Webquest Answer Key:

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but for arthur the demolition of his house is only the beginning arthur's friend eccentric ford prefect reveals to earth that he  
is not human and he is an alien from a planet called betelgeuse and is a researcher of a

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