



1. Can the letters above be rearranged to form another word in English? Give examples.
2. If you rearranged the letters at random, is it likely that you would form another English word? Explain your answer.
3. If the protein “building blocks” that create cells were rearranged at random, do you think that a useful change in the cell would result? Explain your answer.

3. Answers will vary. Students should understand that most rearrangements, or mutations, are useless or have negative consequences in terms of cell function.

1. Yes, the letters can also be arranged to spell *relay* or *early*.
2. Answers will vary. Students should understand that most of the rearrangements would not form English words.

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