Moving Up and Down Bloom’s Taxonomy

Sample Problems

1. Explain how a potassium atom (K) is different from a potassium ion (K+).

2. A motorcycle police officer starts from rest at point *A* two seconds after a car, speeding at the constant rate of 120 km/h, passes point *A*. If the patrolman accelerates at the rate of 6 m/s2 until he reaches his maximum permissible speed of 150 km/h, which he maintains, calculate the distance x from point *A* to the point where he overtakes the car.

3.List the kinds of energy conversions involved in:

* Operating a calculator
* Propelling an automobile
* Using your arm to turn a page in a book

4. Describe how the ideas of Lamarck and Darwin are similar and how they differ.

5. What are the Eigenvalues of the following matrix?

6. Suggest an explanation for observations that animals and plants in India are almost completely different from the species found in nearby Southeast Asia.