The first Depth of Knowledge (DOK) level is defined as **recollection and reproduction**. Rooted in simple exercises and procedures, students must remember facts, terms and formulas. There is little to no need for [extended processing](https://www.prodigygame.com/blog/inquiry-based-learning-definition-benefits-strategies/), as there aren’t opportunities to “solve” anything. A student will or will not know the answer. In class, we refer to this level as recall and recite. This only requires the student to remember and retell the information learned. This is the lowest level of understanding and we really need to work towards higher order thinking skills, which are more challenging and useful.

Here is an example of a **Science DOK 1** question and answer (almost word for word from the definition below):

1. **What does mimicry mean?** *Mimicry is acting like or looking like something else in order to survive.*

The second Depth of Knowledge (DOK) level is defined as **knowledge application.** For example, as opposed to reciting a math fact, they may have to solve a [multi-step equation](https://www.prodigygame.com/blog/solve-math-problems-faster-techniques/). To successfully do so, they may have to apply information in a different way or scenario than they learned it.

Many of our vocabulary quiz questions require at least the DOK 2 thought process. This means be able to apply the basic definition to a different scenario or example other than the ones given verbatim in class.

For example, we may have found these definition in the text, glossary, lesson, or dictionary:

-mimicry means “acting like or looking like something else in order to stay safe,”

-migration means “ to move to another area for a short while, then return home, to enhance survival chances, usually to find more food, better climate, or good breeding conditions.”

-hibernation means “ remain in a deep sleep or sleep like state for several months, to enhance survival chances by avoiding starvation/ harsh climate, usually during the winter when food is scarce”

-camouflage means “ use of color, shape, and/ or pattern to blend in or hide in plain sight within an environment”

Here is an example of a **Science DOK 2** question and answer (use the definition above in a different scenario in which you have to recall the meaning and understand its similarity to the scenario provided):

1. **If a bug appears to be a leaf and sits still in a bush with similar leaves, what type of adaptation is it using?**
2. Migration b. Mimicry c. Hibernation d. Camouflage

The bug looks like a leaf (same shape and color) and sits still on a branch with other leaves (acts like) to avoid being eaten by the bird. This scenario includes application of the definition of mimicry. Currently, students are having a hard time with this DOK 2, and home study can help!