**Learning**

Learning is the idea that knowledge can be acquired through a process of instructions or tasks. It is a unique tool that allows you to understand a concept and develop on it by studying and/or utilizing resources that have been provided. Learning can also help with uncharted territories. If one can pick and understand quickly the environment that they are in they can react accordingly based on new information. In terms of the application purpose, learning can provide the ability to make changes to the decision-making process in real time. For example, a navigational unit that picks up new information about a traffic jam on a traveled path. The unit can use the information it learned to from a GPS satellite to pick an alternative route to avoid the traffic jam on a given path.

**Understanding**

The ability to understand is essentially a way of comprehending what has been taken in. It allows for the meaning of something to be accepted. Understanding can be used as an application in artificial intelligence for developing self-awareness at a current state. For example, a machine that utilizes the attributes of AI can use the concept of self-awareness to analyze its surrounding to record data for further analysis.

**Reasoning**

Reasoning is a statement that comes after an action to justify it. It can be applied as an application for validating a decision that must be made that is backed by a basis. Having reasoning as a part of the artificial intelligence structure is vital for giving devices that use AI the ability to make rational choices based on the information that they have. This concept can be better understood in the real world, for example if you are trying to calculate the shortest route between two point. If you are given multiple different paths reasoning will play a factor in deciding to select the shortest distance.

**Creativity**

Creativity is the ability to produce an original thought or idea and apply it in some form. Creativity is the key to creating new inventions and/or concepts that can be developed into real working projects. Its application purpose can be served with data collection for better understanding the target consumer. Artificial intelligence that is capable of creativity can better analyze the consumer that it is serving and respond with an original idea that can enhance the user’s experience.

**Problem-solving**

Problem solving is the idea that a problem can be broken down and solved piece by piece to get an answer. Reaching an answer can be achieved by applying mathematical/logical principles to a given problem to minimize the task at hand and complete it. As an application, problem solving can be used to minimize larger problems into smaller problems and then solve them recursively until a solution can be acquired.