

Engineering Literacy Dimension: Engineering Habits of Mind

Overview: *Collaboration* is the ability to work with others to complete a task and achieve desired goals, which includes effective Communication abilities. A collaborative habit of mind enables an engineering literate individual to connect with, and draw upon, the perspectives, knowledge, and capabilities of others to best achieve a common purpose. This Engineering Habit of Mind is important to Engineering Literacy as most engineering projects are undertaken as a team and successful solutions require the participation from team members with diverse backgrounds. Engineering successes are built through a willingness to work with others, listen to stakeholders, think independently, and communicate ideas collaboratively (NAE, 2019).

Performance Goal for High School Learners

By the end of secondary school, engineering literate students should be able to be collaborative/communicative throughout the course of a team-based engineering project/activity to leverage diverse perspectives in successfully completing designated tasks.

Resources

Engineering is Elementary. (n.d.). *Engineering habits of mind*. <https://blog.eie.org/topic/engineering-habits-of-mind>

LinkEngineering. (n.d.). *Habits of mind*. <https://www.linkengineering.org/Explore/what-is-engineering/5808.aspx>

Royal Academy of Engineering. (2014, May). *Thinking like an engineer: Implications for the education system*. <https://www.raeng.org.uk/publications/reports/thinking-like-an-engineer-implications-full-report>