

# Science

## Understanding our values



In Science, Alofa might be defined as promoting practices that maintain and enhance the mana of people, environment and space. Alofa also means that there is no deficit thinking about any students.



Kuleana might be defined in Science as the responsibility to navigate, explore, investigate knowledge with a responsibility to generations to come.



In Science, the Vā might mean investigating relationships between people and the environment, to develop an understanding of its importance.



In Science, Vaka might mean evoking student agency utilizing the knowledge developed by engaging students' capital. It will include a connection to a people and humanitarian collectivism. It will consider the impacts of Science on, with and in the environment.



Fonua, in Science, means that the 'why' is important. Learners need to understand the relevance of Science to their everyday lives, their worlds and their journeys - both metaphoric and literal.

## Our values in practice...

Examples of Alofa in practice in Science include caring for people, process and environment. It might mean digging deeper into the systemic causes of ill-health amongst communities suffering from low socio-economics, rather than taking these at surface value.

In practice, an example of Kuleana in Science might be an exploration of Pacific relationships with the land including the cultivation of sustainable environmental practices, for example, aqueducts in Hawai'i.

Examples of the Vā in practice will pay attention to relationship, not just transaction. Examples will be based on care of and for people and the environment. Teachers might also consider the relationship between chemicals and the reactions caused and observed.

An example of Vaka in Science might be examining how advancements in technology have moral and cultural impacts that should be considered while pushing scientific boundaries (eg. cloning). This highlights that all technological advancements need to be cognizant of how this may impact on the collective in order to ensure there is a duty of care throughout.

Examples of Fonua in Science might include opportunities to explore and understand the learners' local environments. In NCEA Biology, teachers might deepen and expand on the Rocky Shore assignment, allowing learners to physically engage with environment ecosystems.