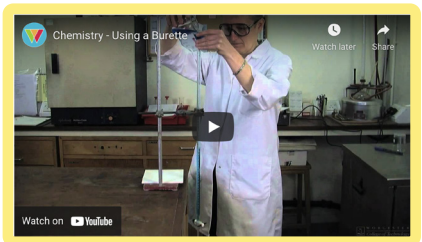
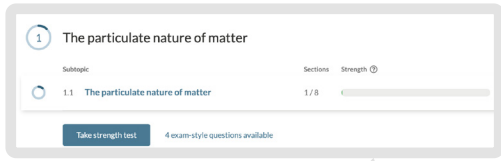
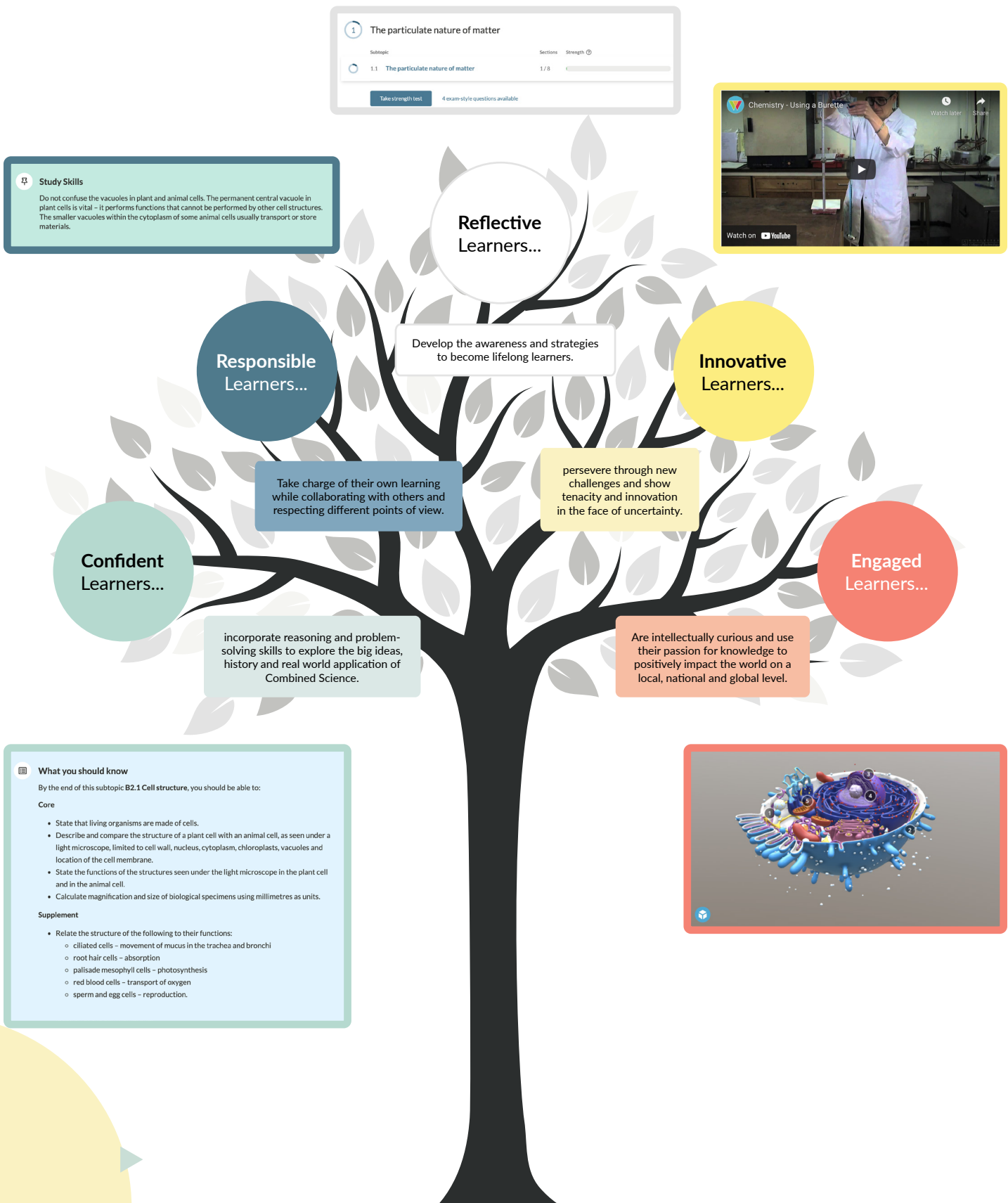


What makes an IGCSE Combined Science Kognity Learner?

Kognity supports IGCSE students in growing lifelong academic and social-emotional skills that will help them succeed in further study and career goals. Use the tree below to explore how Kognity nurtures IGCSE Combined Science learners in developing these skills.

IGCSE Learner Attributes with Kognity



Study Skills

Do not confuse the vacuoles in plant and animal cells. The permanent central vacuole in plant cells is vital - it performs functions that cannot be performed by other cell structures. The smaller vacuoles within the cytoplasm of some animal cells usually transport or store materials.

What you should know

By the end of this subtopic B2.1 Cell structure, you should be able to:

Core

- State that living organisms are made of cells.
- Describe and compare the structure of a plant cell with an animal cell, as seen under a light microscope, limited to cell wall, nucleus, cytoplasm, chloroplasts, vacuoles and location of the cell membrane.
- State the functions of the structures seen under the light microscope in the plant cell and in the animal cell.
- Calculate magnification and size of biological specimens using millimetres as units.

Supplement

- Relate the structure of the following to their functions:
 - ciliated cells - movement of mucus in the trachea and bronchi
 - root hair cells - absorption
 - palisade mesophyll cells - photosynthesis
 - red blood cells - transport of oxygen
 - sperm and egg cells - reproduction.

