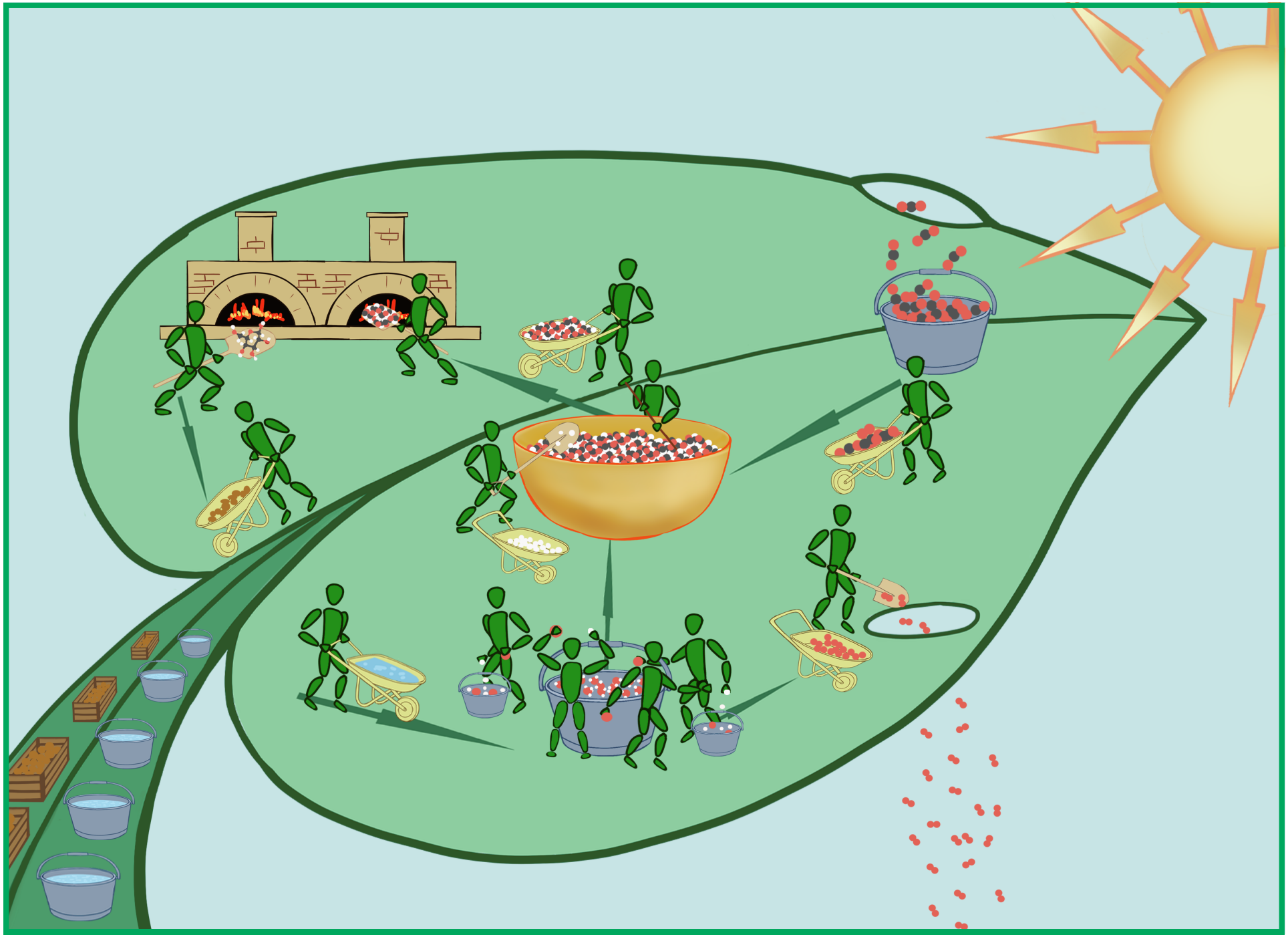

The **xylem** transports water (**H2O**) from the roots to the leaf.	The **chlorophyll** inside the leaf's **chloroplasts** takes in energy from the **Sun**.	Water (**H2O**) is separated into hydrogen ions (**H+**) and oxygen (**O2**).
Oxygen (**O2**) exits the leaf through its **stomatal pores**.	The leaf takes in carbon dioxide (**CO2**) through its **stomatal pores**.	Carbon dioxide (**CO2**) and hydrogen ions (**H+**) combine to form simple carbohydrates.
The simple carbohydrates are processed further to make glucose (**C6H12O6**), which is also a simple carbohydrate.	Glucose can also be turned into complex carbohydrates like starch and cellulose.	The **phloem** transports carbohydrates produced in the leaf to other parts of the plant (some also stay to be used in the leaf).

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