



The cards

The deck of cards is a playful way to have a physical visualization of the plants, their needs and their benefits. Each card will provide information that can be helpful in choosing what to grow. Each of these plants or animal products to be cultivated is also associated with its characteristics related to consumption. In this way, pupils can learn how to grow or produce their favorite food, knowing what benefits it can bring them. The information contained on either side of the card is as follows:

At the top, we can see the card number, as well as the color of the element's family (vegetable, flower, seed, ...)

Then we have a section with an image of the plant, its common name, and a small description of the plant type: biennials, annuals, etc.

Then comes all the information on where, how and when to sow the plant: sun exposure, irrigation, months of sowing, months of harvesting, type of soil needed and type of regions in which it thrives.

At the bottom of the card, we can see a section containing the associated card numbers. It means which plants this will thrive on the most when planted close together.

In the maps, all the basic information necessary to be able to choose where to plant a particular plant is available in a synthetic way.

These cards will therefore allow for a simple, visual and playful way to try out different combinations of plants within a specific space. They will also serve as a basis for understanding how the different elements are connected to each other in the garden and how they can benefit each other.

The pupils will be able to organize the cards / plants as they see fit and will also have different ways of working in groups to combine the cards and imagine new gardens.

Of course, true large-scale permaculture design requires experience and a lot of information. Many factors go into this type of design and it is also important to realize that a project may require a review and that this is a long process of observation, trial and error.

The LivingSTEM deck of cards is intended to be a useful and fun tool to increase students' knowledge of plants from a practical, scientific and nutritional perspective. It can be useful not only for learning Permaculture notions, but also for many other educational activities related to STEM disciplines to benefit from a creative and visual tool.

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