SCHOOLS

Teacher's guide

Everything you need to keep the class MAVA thriving all year, no gardening experience required: how it works, a typical year, holidays and pupils' jobs.

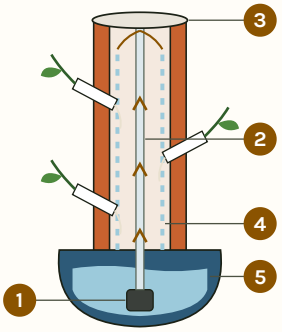
For : HYDRO SLIM OLLA COMPOST

How your MAVA works

HYDRO SLIM

Hydroponics: water circulates

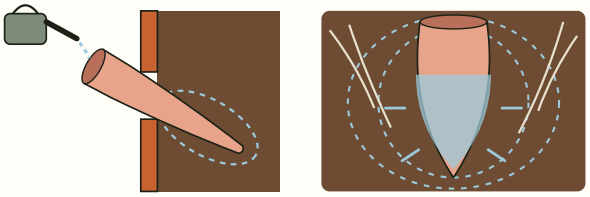
- A submerged pump lifts nutrient water to the top of the tower; it trickles over the roots and returns to the reservoir.
- The pre-set timer waters for 15 minutes every 3 hours.
- An adult doses the nutrients (solutions A and B) and renews them every 4 to 6 weeks.
- Pupils top up the reservoir with plain water, observe, measure and harvest.



OLLA COMPOST

In soil: ollas do the watering

- Ollas, porous clay cones, release water slowly into the soil.
- Just keep them filled, more often in hot weather: children can do it on their own.
- Jute towels hold each plant upright in its opening.
- COMPOST: scraps placed in the centre become compost in about 3 months.



Fill the olla; roots come to drink.

Week one

- [ ] Choose the spot: bright, level, away from walkways; a 220 V socket for HYDRO and SLIM.
- [ ] Installation by IWAGUMI, or by you with your MAVA's installation guide (BD-02 to BD-05).
- [ ] Introduce the MAVA to the class and set up the job teams (EC-05).
- [ ] Start the first seeds (HYDRO, SLIM) or plant young plants (OLLA, COMPOST).
- [ ] Open the class log and take a 'day one' photo.

A 10-minute routine

Monday: water (reservoir or ollas). Wednesday: observations and measurements. Friday: harvest, tidy up and photo of the week.

A year with the MAVA

A typical plan for Morocco's Atlantic coast and a September–June school year. Plant-by-plant detail: EC-04.

September	Installation, teams, first cool-season sowings: radish, rocket, lettuce, coriander, dill.
October–November	First radish and rocket harvests. Plant the strawberries. First harvest party.
December–February	Lettuce, parsley, mint, coriander. Re-sow every 3 weeks. Renew the nutrient solution.
March–April	Strawberries. Sow basil and nasturtiums. Deep clean between crops.
May–June	Final harvests and an end-of-year party. Get ready for the summer (below).

During the holidays

Short breaks (up to 2 weeks)

- HYDRO, SLIM: fill the reservoir to the brim, leave the timer running and check it is in programme mode.
- OLLA, COMPOST: fill the ollas and water from the top; move to shade if you can.
- Ask a staff member to check once a week.

Summer holidays

- HYDRO, SLIM: harvest everything, empty, clean (ET-01) and store the pump dry.
- OLLA, COMPOST: plant thyme and rosemary, which need little water, and arrange for the ollas to be refilled weekly; otherwise harvest and let it rest.
- Compost: cover with a layer of dry material and close the tajine lid.

Good to know

Water use depends on the heat and the size of the plants. Before a break, note how much the reservoir drops in a week: you will know how many days it lasts.

Pupils in charge

Hand the MAVA over to teams that rotate every week. The job chart (EC-05) goes up next to the module.

1. **Water keeper**
   Checks the reservoir or ollas and tops up with plain water.
2. **Observer**
   Measures plants, counts leaves and records everything in the class log.
3. **Gardener**
   Harvests, removes damaged leaves and guides climbing stems.
4. **Reporter**
   Takes the photo of the week and shares the news with the class.
5. **Compost keeper**
   COMPOST: adds scraps, turns the compost, checks the smell and the liquid.

Harvest party ideas

- A salad bar with the class's lettuce, rocket and radishes.
- Moroccan mint tea made with mint from the MAVA, served to families.
- A blind herb-tasting: basil, coriander, parsley, dill.
- A small harvest market to fund a class project.

Restocking from IWAGUMI

- Nutrient solutions A and B (HYDRO, SLIM)
- Rockwool cubes and seeds
- Perforated jute towels (OLLA, COMPOST)
- Young plants and the plants + installation option

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Going further

Safety and hygiene: EC-03. Plants for the school year: EC-04. Twelve lesson plans for ages 3 to 18: PE-01 to PE-12.