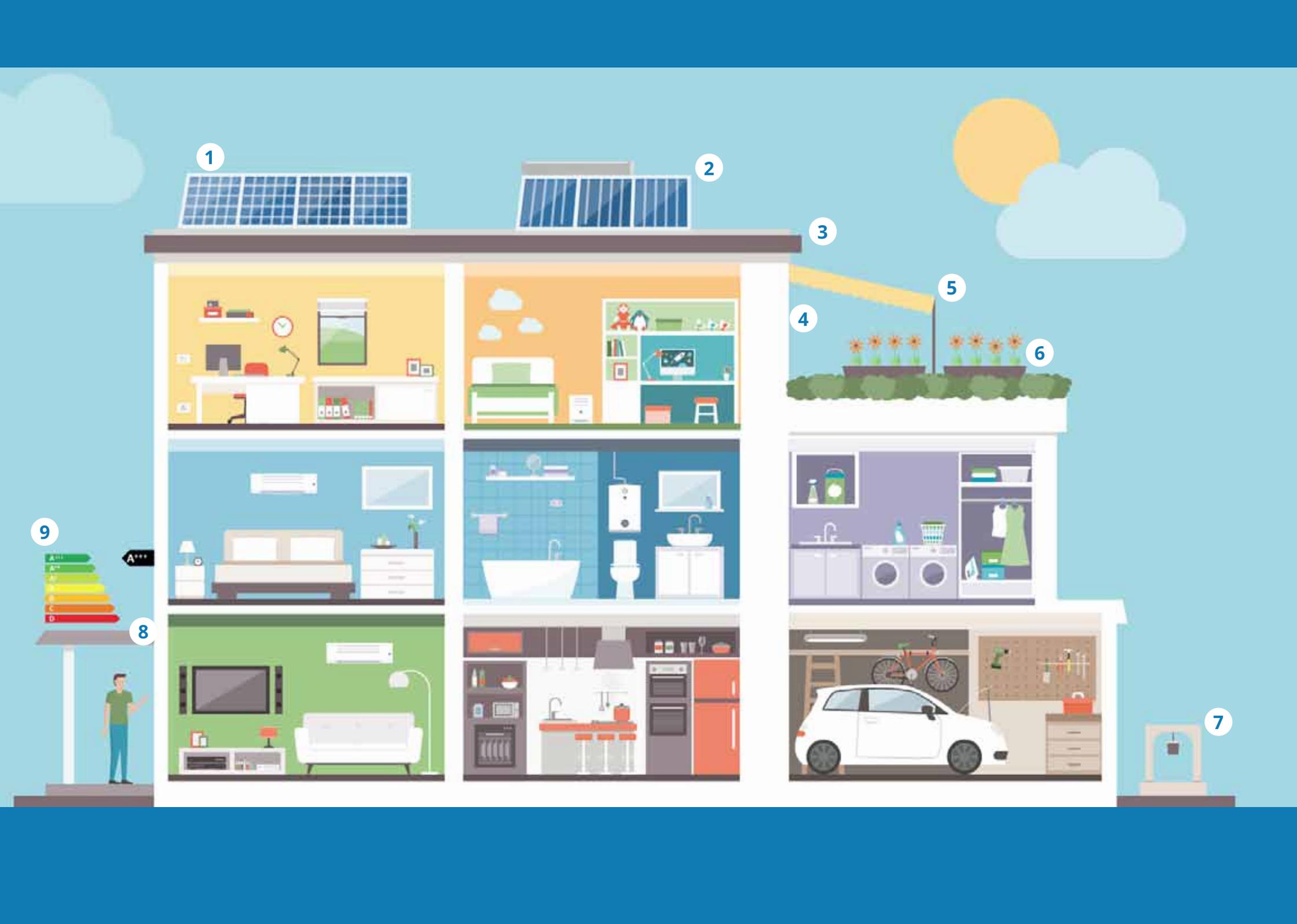


**THE
ENERGY
& WATER
AGENCY**



ENERGY & WATER SAVING TIPS

Energy and water saving tips for the household



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ENERGY & WATER SAVING TIPS

Energy saving tips for the household

1 - PV Panels

- Ensure surface is clean, for best performance
- Discuss the specific technical aspects of your needs with a trusted supplier/ expert, and benefit from the financial support scheme being offered for the purchase of PV Panels: <https://www.rews.org.mt/#/en/rewspal/137>
- Use the shading that PV panels provide to your advantage, especially in summer

2 - Solar Water Heaters

- Discuss the specific technical aspects of your needs with a trusted supplier or expert
- Take advantage of financial support schemes available to purchase your Solar Water Heater: <https://www.rews.org.mt/#/en/rewspal/137>

3 - Roof

- Apply reflective paint on the roof
- Consider applying thermal insulation on the roof
- Take advantage of financial support schemes available: <https://www.rews.org.mt/#/en/rewspal/137>

4 - External Doors

- Apply weather stripping around the doors' perimeter to prevent air leaks

5 - External Shading Device

- Install external shading on walls and windows exposed to the sun
- Use horizontal types of shading devices on South facing facades and use vertical types of shading devices on East and West facing facades

6 - Garden

- Use recycled water to irrigate your garden
- Purchase plants that are more energy efficient and require less irrigation

7 - Well

- Ensure that the necessary plumbing is in place to use well water for flushing of toilets and watering plants
- Take advantage of financial support schemes available to restore your domestic cistern: <https://www.rews.org.mt/#/en/rewspal/137>

8 - House Visits

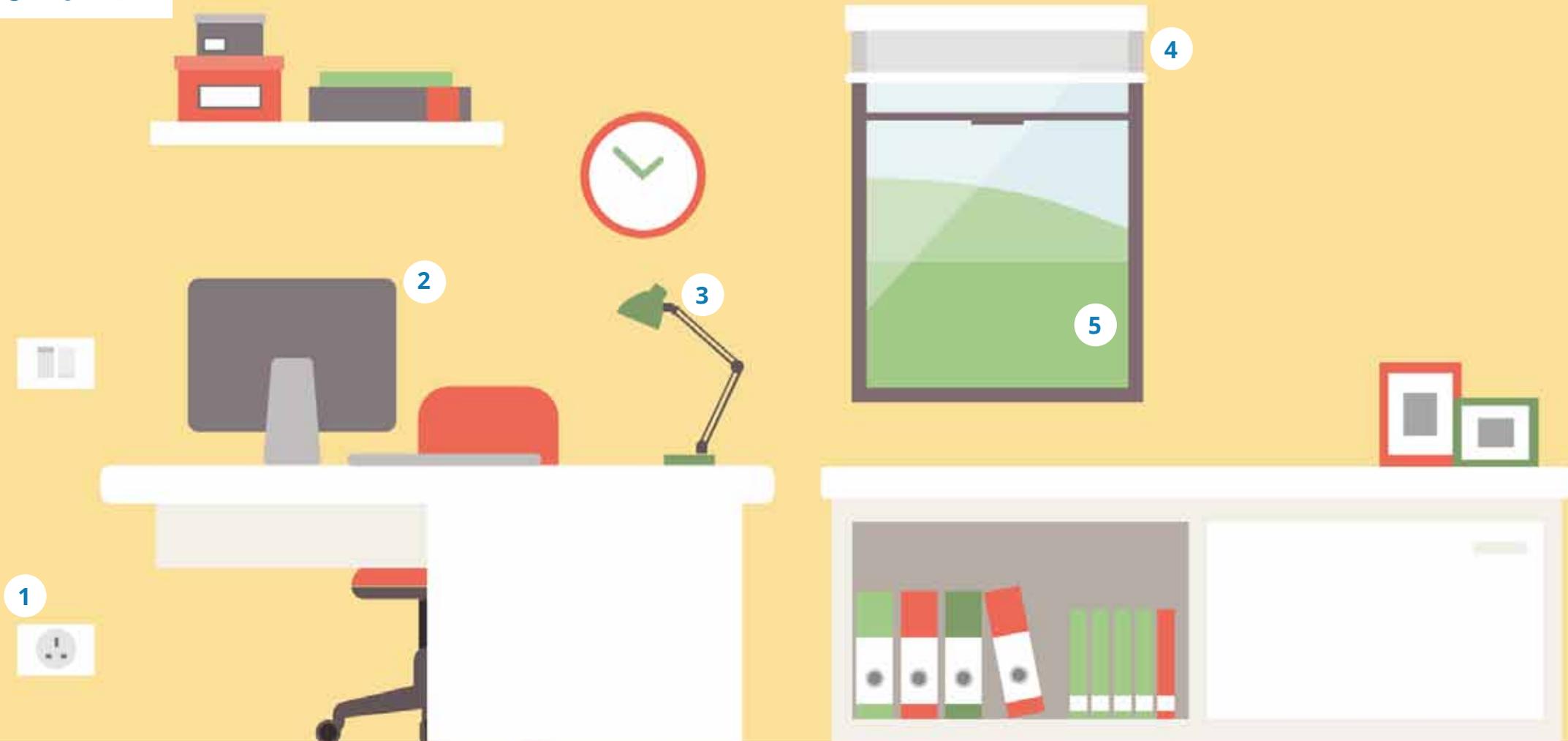
- Call 22292575 to book your free house visit to make use of tailor made recommendations specifically for your household

9 - Energy Label

- Always check the energy label for energy efficient appliances when purchasing new appliances



STUDY



1 - Power Outlet - Do not leave equipment on stand by. Switch off instead.

2 - Computers - Set computer to 'Hibernate' automatically when not in use for a short while and switched off for longer times; Monitors should be switched off when not used for some time; Printers and copiers should be turned on only when needed; Laptops use around 80% less energy than desktop computers of equivalent performance

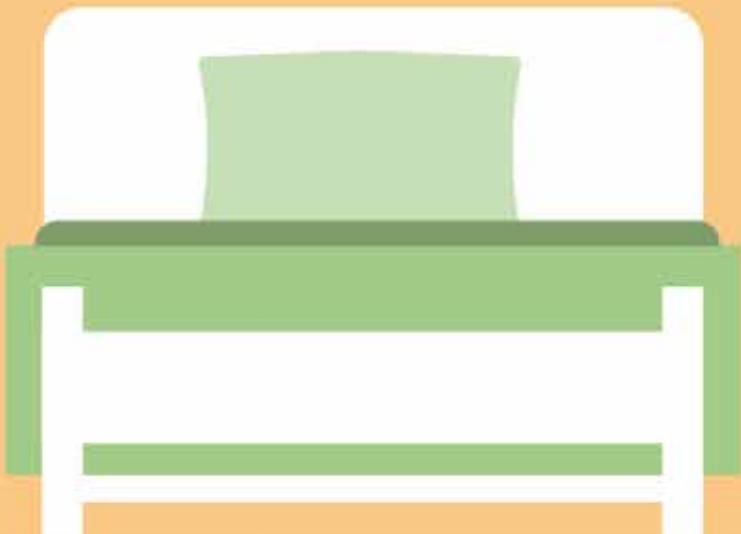
3 - Lighting Appliances - Turn off the lights when leaving a room; Ensure bulbs are free from dust; Use reflectors and task lighting to get light where you need it; Select lowest wattage bulb needed to light the area; Choose the correct brightness and preferred colour; Replace light bulbs with more energy efficient options such as LED

4 - Windows - Consider having solar films applied to existing external apertures; Have low-emissivity (low-e) coatings pre-fabricated onto the glazing; If you are

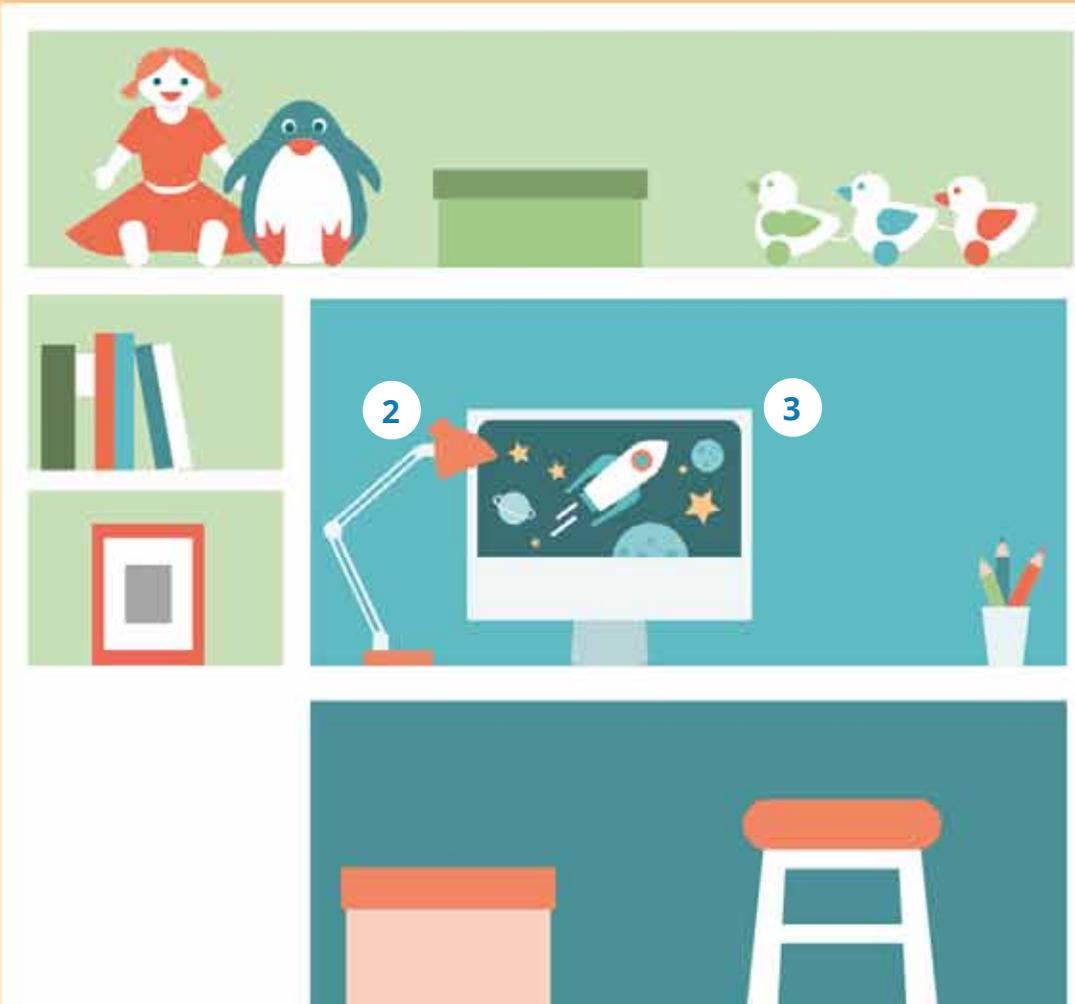
installing new apertures, consider opting for double glazing apertures to increase energy efficiency and benefit from the financial support schemes available: <https://www.rews.org.mt/#/en/sdgr/270-2018-roof-thermal-insulation-and-double-glazing-scheme>

5 - Natural Lighting - Position furniture so you make the most of natural light; Keep curtains open to let in natural light in

BEDROOM



1 - Dehumidifiers - Make use of the collected water for flushing of toilets and watering of plants; Place away from walls and furniture for air to circulate freely; Windows around it should be closed when in use; Choose a dehumidifier of sufficient capacity to deal with your situation



2 - Lighting Appliances - Turn off the lights when leaving a room; Ensure bulbs are free from dust; Use reflectors and task lighting to get light where you need it; Select lowest wattage bulb needed to light the area; Choose the correct brightness and preferred colour; Replace light bulbs with more energy efficient options such as LED

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BEDROOM



1 - Lighting Appliances - Turn off the lights when leaving a room; Ensure bulbs are free from dust; Use reflectors and task lighting to get light where you need it; Select lowest wattage bulb needed to light the area; Choose the correct brightness and preferred colour; Replace light bulbs with more energy efficient options such as LED

2 - Air Conditioner - Set to desired temperature - any higher/lower will not achieve temperature faster; Using a fan together with an AC increases cooling effect; Service and repair AC when needed; Replace old AC with inverter-driven AC when used for long periods; When buying a new AC, choose a size appropriate for the required space and make sure to close all external apertures when in use; Plan to collect excess water produced by the AC unit to flush or water your plants

3 - Wall Insulation - Consider applying thermal insulation on external walls

BATHROOM

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1 - Shower Head - Whenever possible, opt for a shower instead of a bath and make use of water efficient shower heads. Also, until the water reaches the desired temperature, it can be collected in a container and used for flushing or plant irrigation

2 - Water Heater - Set your water heater at the ideal temperature of 60deg C; Replace inefficient electric water heaters; Install the water heater close to the shower and bath taps to avoid wasted cold water in pipes; Opt for a solar water heater or air to water heat pump, taking

advantage of grant schemes: <https://www.rews.org.mt/#/en/rewspal/137>

3 - Flushing - Put a one litre bottle of water in the tank of single flushing systems, to reduce the volume of water flushed. Where possible, install a dual flush system to regulate flushing as necessary. Also, do not use the toilet for the disposal of garbage

4 - Water Tap - Whenever possible, install a single lever water tap as this will easily allow you to turn off the water tap whilst lathering your hands. Also turn off the water tap whilst brushing your teeth and use a cup for rinsing. You can also install a water aerator at the tip of the water tap to increase its water efficiency, whilst still enjoying a good flow



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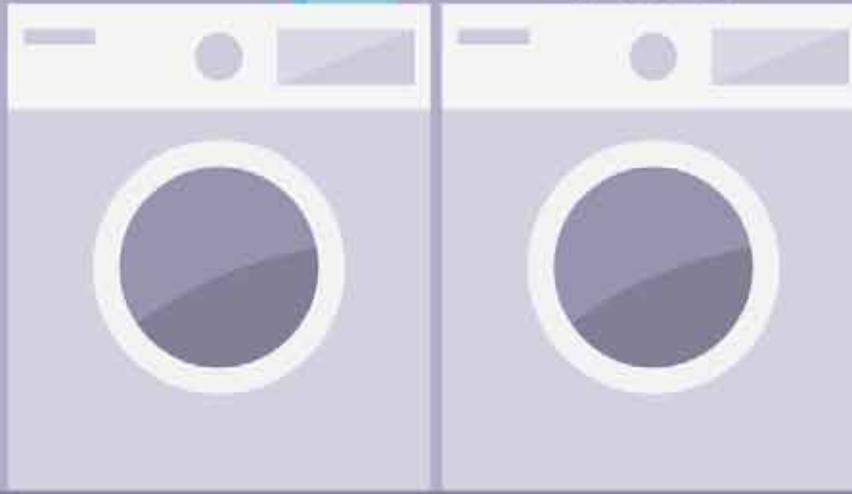
LAUNDRY



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1 - Washing Machine - Wash full loads when possible; Wash in cold water when possible, taking advantage of modern detergents - however use the hot wash function from time to time to clean the machine; Unplug machine when not in use to avoid having it on standby; Group clothes by colour or fabric to use a more efficient wash cycle. When buying a new machine, opt for energy and water efficient appliances by taking note of the rating labels

2 - Tumble Dryer - Air dry clothes instead of using dryer when possible; Do not overload dryer; Use energy saving dryer balls to reduce drying time by up to 25%; Keep lint filters clean to avoid motor working harder

LIVING ROOM



1 - TV - Switch off TV from power switch instead of leaving on standby when not in use; Reduce unnecessary brightness; LED screens are the most efficient technology

2 - Air Conditioner - Set to desired temperature - any higher/ lower will not achieve temperature faster; Using a fan together with an AC increases cooling effect; Service and repair AC when needed; Replace old AC with inverter-driven AC when used for long periods; When buying a new AC, choose a size appropriate for the required space and make sure to close all external apertures when in use; Plan to collect excess water produced by the AC unit to flush or water your plants

3 - Lighting Appliances - Turn off the lights when leaving a room; Ensure bulbs are free from dust; Use reflectors and task lighting to get light where you need it; Select lowest wattage bulb needed to light the area; Choose the correct brightness and preferred colour; Replace light bulbs with more energy efficient options such as LED



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KITCHEN



1 - Kettle - Boil only the amounts of water needed; Buy the right kettle size for your needs

2 - Microwave Oven - Generally less energy consuming than conventional ovens

3 - Dishwasher - Wash loads when at full capacity; Use fast/eco wash programmes when possible; Run at a lower temperature setting, taking advantage of modern detergents

4 - Kitchen Tap - Wash fruits and vegetables in a bowl with water instead of running water; Boil food in as little water as possible; Avoid using water to defrost your food. Install a water aerator at the tap to increase its efficiency whilst still enjoying a good flow.

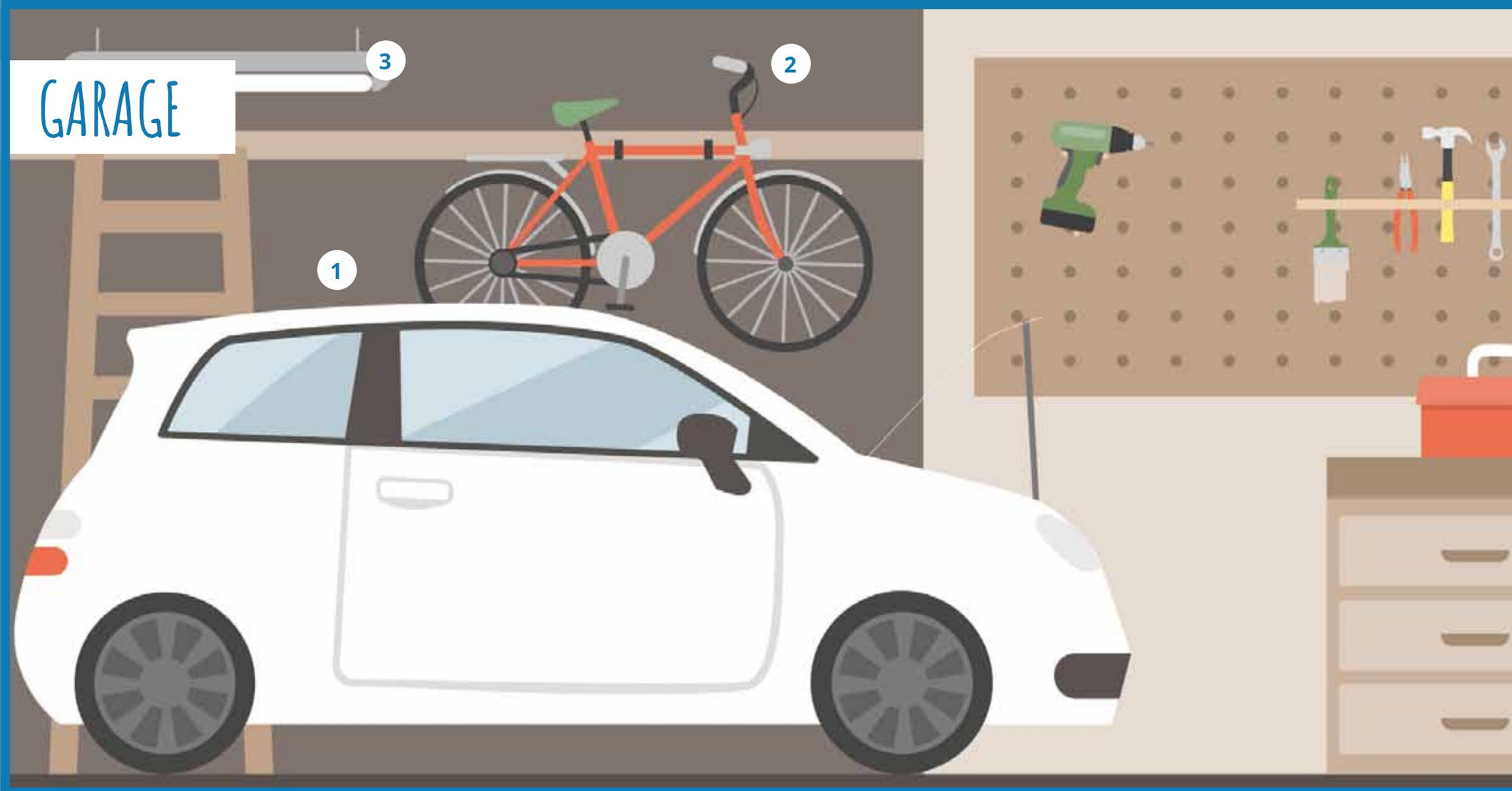
5 - Hob - Use right pan size to match hob size; Use lids on pans to keep heat in; Turn down burner once temperature is reached; Use a steamer for cooking vegetables to maximise number of items cooked simultaneously

6 - Oven - Do not open doors unnecessarily; Use oven space fully and strategically place dishes; Prefer ceramic dishes to metal; Keep oven clean; Replace old oven with newer energy-efficient models

7 - Freezer - Keep away from heat sources like oven, hob or sunlight; Maintain good airflow all around for heat to escape; Cool food from hot before freezing; Temperature should be set to -15°C ; Keep coils and compressor clean; Manually defrost upon frost build-up and check rubber seal if excessive build up persists; Service and repair when needed to maintain effective operation

8 - Fridge - Keep temperature between $3-4^{\circ}\text{C}$; Don't leave door open for too long; Cool foods down before refrigerating; Thawing frozen foods in the fridge is beneficial for both the fridge and the food; Maintain good mechanical condition such as rubber gasket and coils

GARAGE



1 - Car

Vehicle Condition: Have a regular engine check-up; Check tyre pressure at least monthly

Journey Planning: Drive with a little load, if possible; Combine errands to save fuel

Driving Habits: Anticipate driving to avoid unnecessary acceleration, using right gears; Maintain steady speeds and avoid high speeds; Drive skilfully - avoiding revving the engine, leaving the vehicle idle etc.

Considerations: Converting petrol engine to autogas; Buying a newer, more efficient vehicle; When buying, (i) consider buying an electric or hybrid vehicle, and (ii) choose a right sized vehicle factoring in car how much it will be used

2 - Other Transport - Consider walking, cycling or using public transport to your destination.

3 - Garage - Do not forget to switch off the lights when you leave the garage. You can also install a sensor to increase the lighting efficiency



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