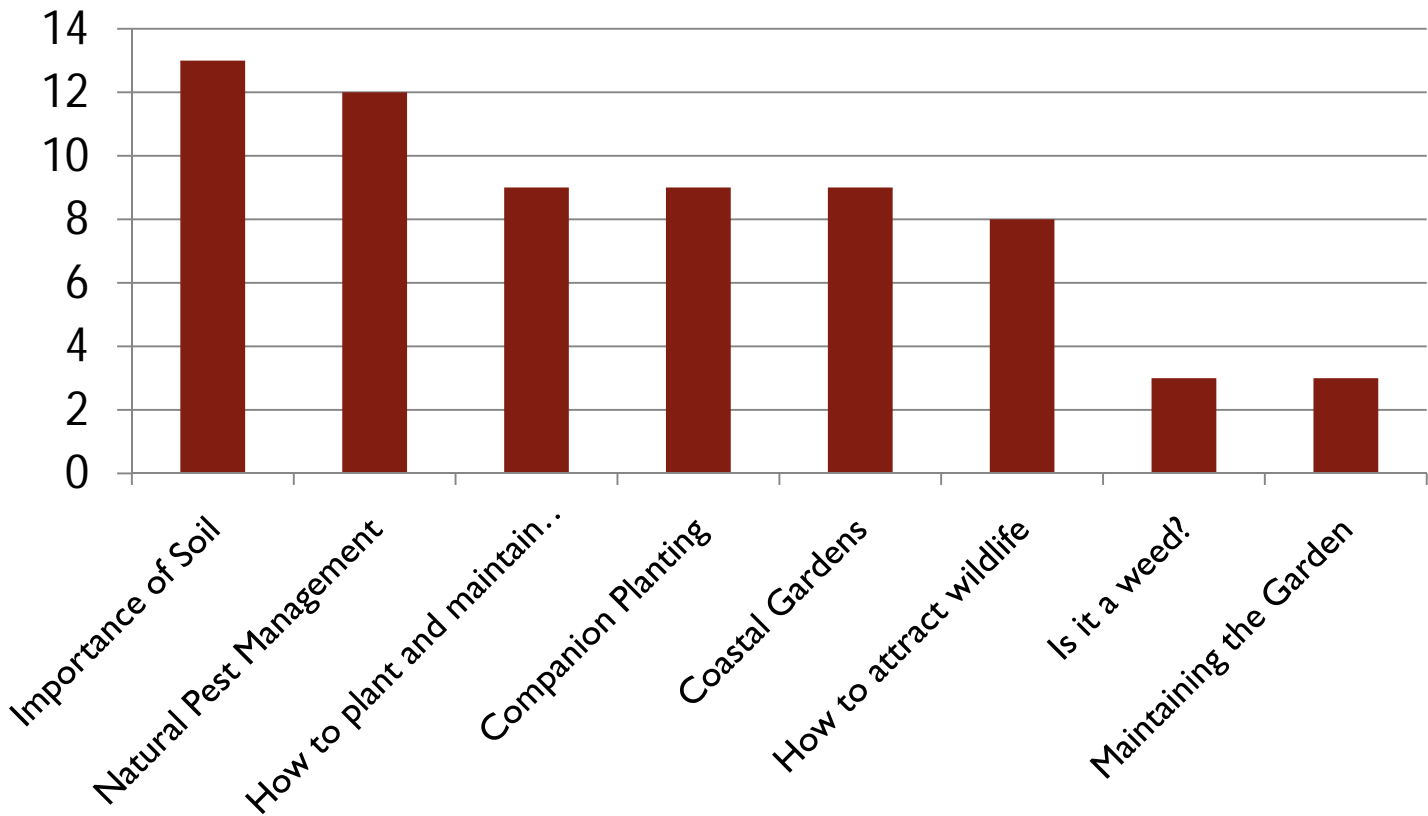




Garden Smart for Biodiversity



Gardening for Biodiversity Topics



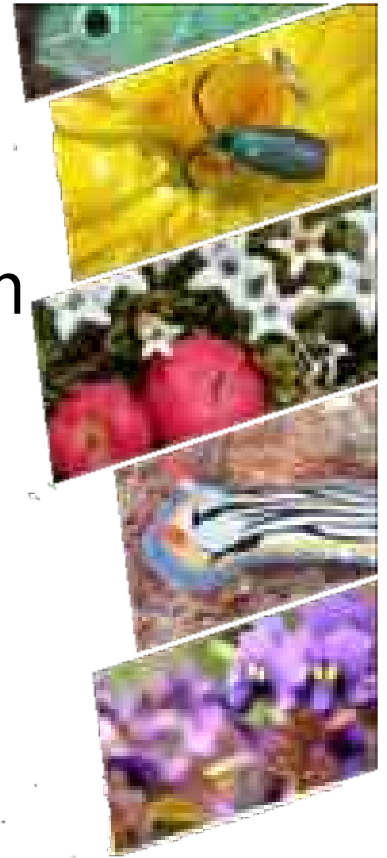
What is Biodiversity?

- Biodiversity is the web of life. It is all the many plants and creatures that live on Earth from the smallest insect in the soil to the largest mammal in the ocean.
- There are three levels of biodiversity:
 - Genetic Diversity
 - Species Diversity
 - Ecosystem Diversity



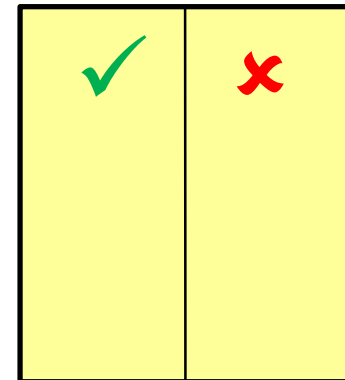
Why protect biodiversity?

- It keeps our water drinkable;
- It keeps our soil healthy to grow the food we eat;
- It filters and cleans up the pollution we pump into the air, rivers and oceans;
- The animals and plants we share the earth with have as much right to be here as us;
- Without the support of biodiversity, we would not be able to exist;



Activity

- In table teams:
 - brainstorm things you can do that promote biodiversity;
 - Brainstorm things to avoid that negatively impact on biodiversity
- 5 min



The importance of soil

- Macro-organisms – fauna/flora;
- Micro-organisms – fauna/flora;
- Vegetation layers
- Chemical fertilisers
- Biodynamic and organic gardening
- Soil structure



The importance of mulch

- Protects the soil structure;
- Maintains soil moisture;
- Prevents the spread of soil-borne diseases;
- Suppresses weeds;
- Moderates soil temperature;



Natural Pest Control

- Make your garden friendly to helpful predators:
 - Maximise biodiversity;
 - Ponds;
- Chickens & Ducks
- Grow for abundance
- Last resort – natural sprays



Chilli and Garlic Spray

Ingredients

- 2 cloves of garlic crushed;
- 1 red chilli finely chopped;
- 1 tbsp soap flakes

Method

- Boil garlic and chilli in 1 litre of water;
- Add soap flakes. Strain off in 4 litres of water



How to plant natives

- Sourcing;
- Indigenous versus exotic natives;
- Nutrient requirements (NPK);
- Watering requirements;
- Mulching;



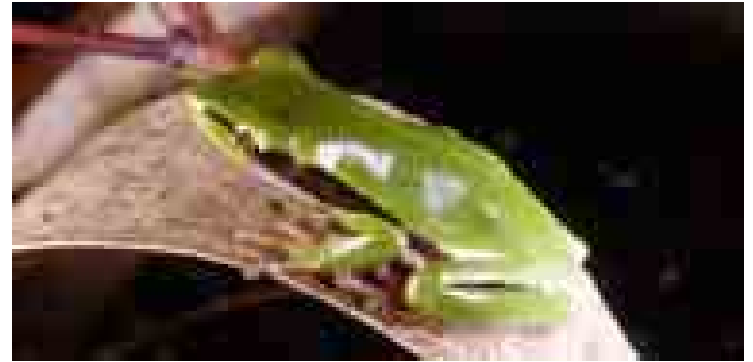
Lawn Alternatives

- Benefits;
- Native Grasses;
- Ground Covers;
- Alternative surfaces – paving, gravel (sustainably sourced).



Safe Havens for Wildlife

- Attracting wildlife:
 - Marsupials;
 - Frogs;
 - Birds;
 - Lizards;
 - Insects;
- Control of predators;



For More Information...



**Living
smart**



Smart Gardens for Biodiversity

Teaching Friends and Neighbors

What is biodiversity?

Biodiversity is the variety of life. It is all the living plants and animals that live on earth including humans, animals, plants, fungi and microbes. But the greatest biodiversity is the soil in the ground beneath the trees.

Teaching Kids About Biodiversity

Species diversity: the variety of genetically determined forms of individual plants, animals and microorganisms that inhabit the earth.

Genetic diversity: the variety of genes within a species.

Ecosystem diversity: the variety of habitats, biotic communities and ecological processes.

Why protect biodiversity?

Biodiversity provides us with a wealth of resources we need to survive. It keeps our soil healthy to grow the food we eat. It provides us with medicines and the air we breathe. It stabilizes and cleans up the pollution we pump out into the air, rivers and oceans. The services provided by biodiversity, not only ensuring the beauty of ecosystems, but also their productivity (e.g. food and energy that we rely on for our economies) without the support of biodiversity, humans would not be able to exist on the earth.

We must also consider that biodiversity has its own intrinsic value. The grasses and plants we grow for food will have as much right to be here as you. Many people argue that we need to protect biodiversity for its own sake and that we have no right to destroy it – not even for the economy.

If you need a lot of things from your garden, you are keeping a lot of things in your garden. And you need a lot of things from your garden, just as you need a lot of things from your garden. And you need a lot of things from your garden, just as you need a lot of things from your garden.

**Living
smart**

Goal Setting

Living Smart
Smart Technology. Smarter Living.



My water smart goal:
 My current water bill drops to _____
 dollars.

By _____

Why I want to achieve my goal:

I will achieve my goal by:

"I don't want just low energy bills," but the ultimate goal is to save the planet!"
water smart

Living Smart
Smart Technology. Smarter Living.



My energy smart goal:
 My current energy bill drops to _____
 dollars.

By _____

Why I want to achieve my goal:

I will achieve my goal by:

"To protect all of the smartest (and/or) things" with a smart/energy."
energy smart

Gardening for Productivity Field Trip



- Saturday 28 March 9:30am to 11:30am
- 11 Oldham Street Hilton
- Parking in Instone St
- Morning Tea provided
- Bring: Folding Chair, Gardening Gloves

Slide 15



Getting there by Public Transport

The screenshot shows a Google Maps interface with the search bar containing "Perth Underground Stn to 11 Odham Street Hilton". The search results on the left list the following transit route:

- 8:11am - M44 - Mandurah Line To Murdoch Stn - Direction: To Mandurah Stn - Duration: 10 minutes
- 8:11am - Depart Perth Underground Stn (10 min)
- 8:11am - Arrive Murdoch Stn (10 min) - Duration: 10 minutes
- 8:11am - Depart Murdoch Stn (10 min)
- 8:11am - Arrive Winterfold Rd After Instone Stn (10 min) - Duration: 10 minutes

The map on the right shows the route in purple, starting from Perth Underground and ending at Winterfold Rd After Instone Stn. The destination address "11 Odham Crescent, Hilton WA 8163, Australia" is also visible in the top right of the map area.

Train from Perth Underground to Murdoch Stn Dep 8:31

Bus to Winterfold Rd After Instone Streed Dep 8:53 Slide 16

A few last things

- Earth Hour: Saturday @ 8:30pm;
- Please return your library books;
- We'll be drawing the grand prize of a night at the Painted Fish next week!

