When creating a pond there are several aspects to be
considered... First you need to choose the material to make the pond
from: UPVC, fibre-glass, concrete and pond liners are perhaps the most common. Discuss your requirements
with your local shop who will help you decide on the best with your local s
option for you.
Pond Guide
its all about water quality


Positioning the pond
The pond should be situated in good light for your pond plants,
but not so strong as to promote algae. Place the pond away from trees, to prevent the leaves falling into the pond in the

Choosing a liner size
If you decide to buy a pond liner, this is how to work out the size you will require: Measure the length (L), width (W) and depth
(D) of the pond excavation in metres. Size of the liner $=$ thwice
 Pond excavation is 6 (L), 4 (W) \& 2 $2(\mathrm{D})$. Liner size required is 8
$\times 10$ Allow some extraliner capacity for the overlap
N.B. If you are to keep koi, the pond should ideally be $1 \mathrm{~m}(3$ ftt) in depth. Pumps and Filters
There are a myriad of pumps and filters on the market - internal,
external etc. Take advise form y our dealer but always purchase $t$ the


Once you have dug your
pond shape uut accordingly
checking the span of pond shape out accordingly
(checkingthespan of the
pond regulary y with a spirit
 sharp stones, added
Underly and fittod the
into the excauation
now were readatation tod
water! Fill the pond will
Pond capacity
Pond capacity
Once the ondis in place, the following calculations may be used to
give you an approximinate indication of pond volume.
Round pond
Radius in metres

Surace Area $m^{2} \times$ depth metese $=$ Volun
Volume $m^{2} \times 1000=$ Litres capacity

Square / rectangular pond
Length $x$ width $x$ deptht metres $=$ Surface Area
Sufrace Alrea $m^{2} x 1000=$ Litres capacity



$\square \begin{aligned} & \text { Now add a Waterife BioMat to the fitier box (if } \\ & \text { appropoite) and a double dose of BacterLife } P \text { to help } \\ & \text { mature it with live bacteri do }\end{aligned}$

## 

BacterLife $\mathbf{P}$ contains two essential groups of bacteria.
One to help digest toxic a mmonia and dititite, the other to break down organic waste which is responsibile for
 retularly to help paintain Bood water quality. Thes
other uses are discussed later within the lealet.

Plants
Now you are ready to plant your pond. Plants offer many advantages to the pond keeper.
Suntrel release lif--iving oxygen into the water whilst
simultaneoesusly absorbbing carbog dioxide and other fish waste. - Plants compete with algae for nutrients in the water and so restrict
 Other widelly available aquatic plants include elodea, water iris.
N.B. Some species of is neat summerged $p$ plants, so choose your selection carefiul

## Pootting up your plants




Waterifie's PondFlora delivers nutrients exactly where the plant needs
 Some plants may benefit from being introduced in 2 stages. Firsty
support the plants clear of the pond floor with ald support the plants cliear of the pond floor with an up-turned planting
basket so that the foiag in oear the surfece. After afew week you can
move them to their final position as indicateated on their label.


SNAILS - As well as eating valuable plant life, snails play host


Stocking your pond


Fish
There are many species of fish avaiable so discuss the best
varieties for or you with your local retailer. We have outlined the most Goldfish - The most commonly kept fish, reaching $8-25 \mathrm{~cm}(3-10$ in)
Orfe - Fast swimming, schooling fish, growing up to $40 \mathrm{~cm}(16$ in).
 or in h ot or thunderous weather. Under these conditions dissolved oxygen will
be very low unless the water is continually aerated / circulated.
 Shubunkins - Highty colourful version of the goldfish.
Size: $8-25 \mathrm{~cm}(3-10$ in), excluding the tail fin.


Feeding \& fish nutrition



 To boost the vitamin content of the feed soak in some ivitarint treated
water for 5 minder
and colour. Water testing
As the oonere of a pond, there are a few water testst that should be
carried out on a regular basis: pH, mmmonia and nititite levels in the carried out on a regulur basis: pHt, ammonia and dititit levels in the
pond water rare erobably the omsti important to check. These can be
easily monitored with your Waterlife test kits.

Pond pHtest
pH is the measure of acidity or akkalinty in your pond. Most ornamental
pond fish require a pH of 6.5 - 8.5 . Water that is markedly more acidic than this optimum range (i.e. .ower than p p
6.5) or more alkaline (i.i. .igher than pH.
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