



Invertebrate Recorders of the Future

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@FSCBioLinks



LOTTERY FUNDED

The Field Studies Council

Bringing Environmental Understanding To All



- Derrygonnelly
- Titanic Quarter - Belfast
- Kindrogan
- Millport
- Rhyd-y-creuau
- Dale Fort
- Orielton
- Margam Park



- Blencathra
- Castle Head
- Malham Tarn
- Preston Montford
- Bishops Wood (Day)
- Flatford Mill
- Juniper Hall
- Nettlecombe Court
- Slapton Ley
- Amersham (Day)
- Epping Forest (Day)
- London (Day)

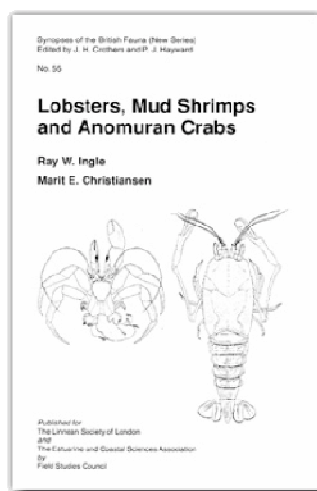
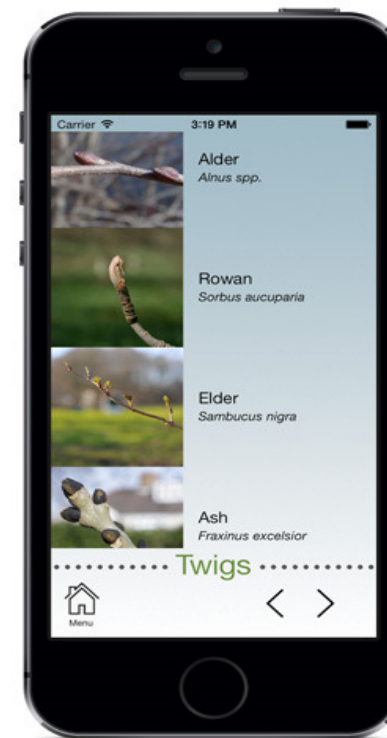
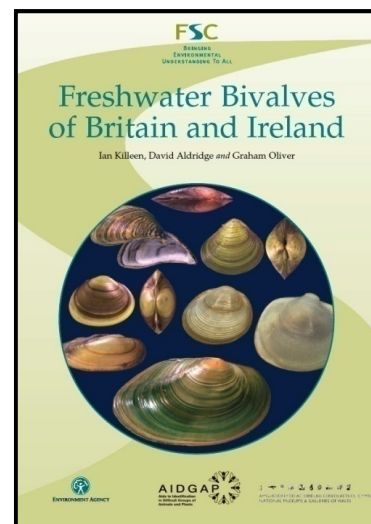
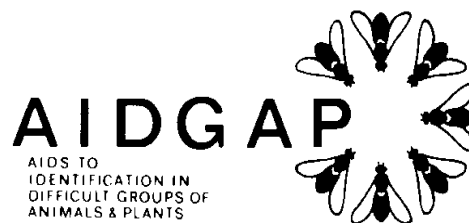
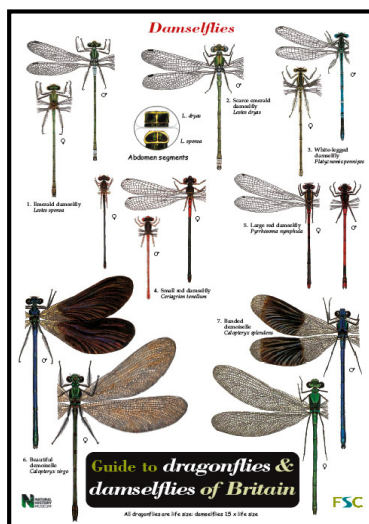


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FSC Biodiversity Projects Timeline



2006	FSC Biodiversity Training Project
2007	○ Heritage Lottery Fund
2008	○ 2006-2010
2009	FSC Invertebrate Challenge
2010	○ Heritage Lottery Fund
2011	○ 2011-2014
2012	FSC Biodiversity Fellowship
2013	○ Defra Fund for Biodiversity in the Voluntary Sector
2014	○ 2013-2014
2015	FSC Tomorrow's Biodiversity
2016	○ Esmée Fairbairn Foundation
2017	○ 2013-2017
2018	FSC BioLinks
2019	○ Heritage Lottery Fund
2020	○ 2016-2017 Development Phase
2021	○ 2018-2022 Delivery Phase
2022	



Consultation Findings



People

- Generational skills gap – young adults are a priority
- Lack of structured training pathways to enable volunteer recorders to develop

Communities

- Select training centres should be developed as hubs for local recording community
- Integration of project into existing recording community pivotal to ensuring legacy

Natural heritage

- Lots of species group under-recorded due to difficulty in identification
- Site managers unable to access or interpret invertebrate data



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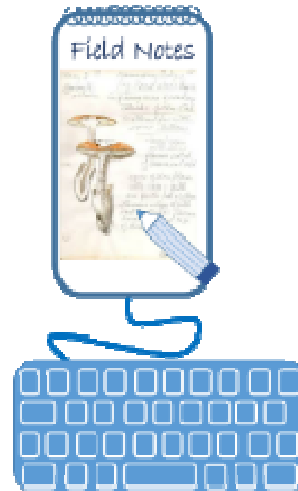
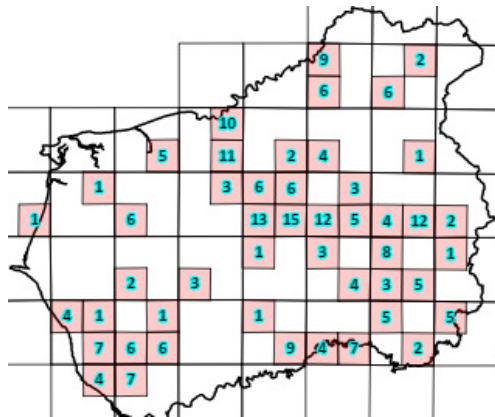
The FSC BioLinks Project – Where?



£1.23m



Going Digital



Eco How: How to make a mini spi-pot
February 11, 2016 ▶ 3/9



All	Body length (mm)	<input type="text"/>
Sex		<input type="text"/>
Ecology	Body flattened	<input type="text" value="no"/>
Body	Grannular appearnace	<input type="text" value="no"/>
Trident		<input type="text"/>
Ocularium	Saddle visibility	<input type="text" value="indistinct"/>
Palps		<input type="text"/>
Chelicerae	Saddle shape	<input type="text" value="paired dark spots"/>

Evidence balance positive

Paroligolophus agrestis
3.1

Opilio saxatilis
3.1

Opilio parietinus
3.1

Paroligolophus meadii
2.7

Dicranopalpus ramosus
2.1

Mitopus morio var ericaeus
2.1

Mitopus morio var morio

Evidence balance negative

Mitostoma chrysomelas
-0.7

Nemastomella bacillifera
-0.7

Sabacon viscayanum ramblaianum
-0.7

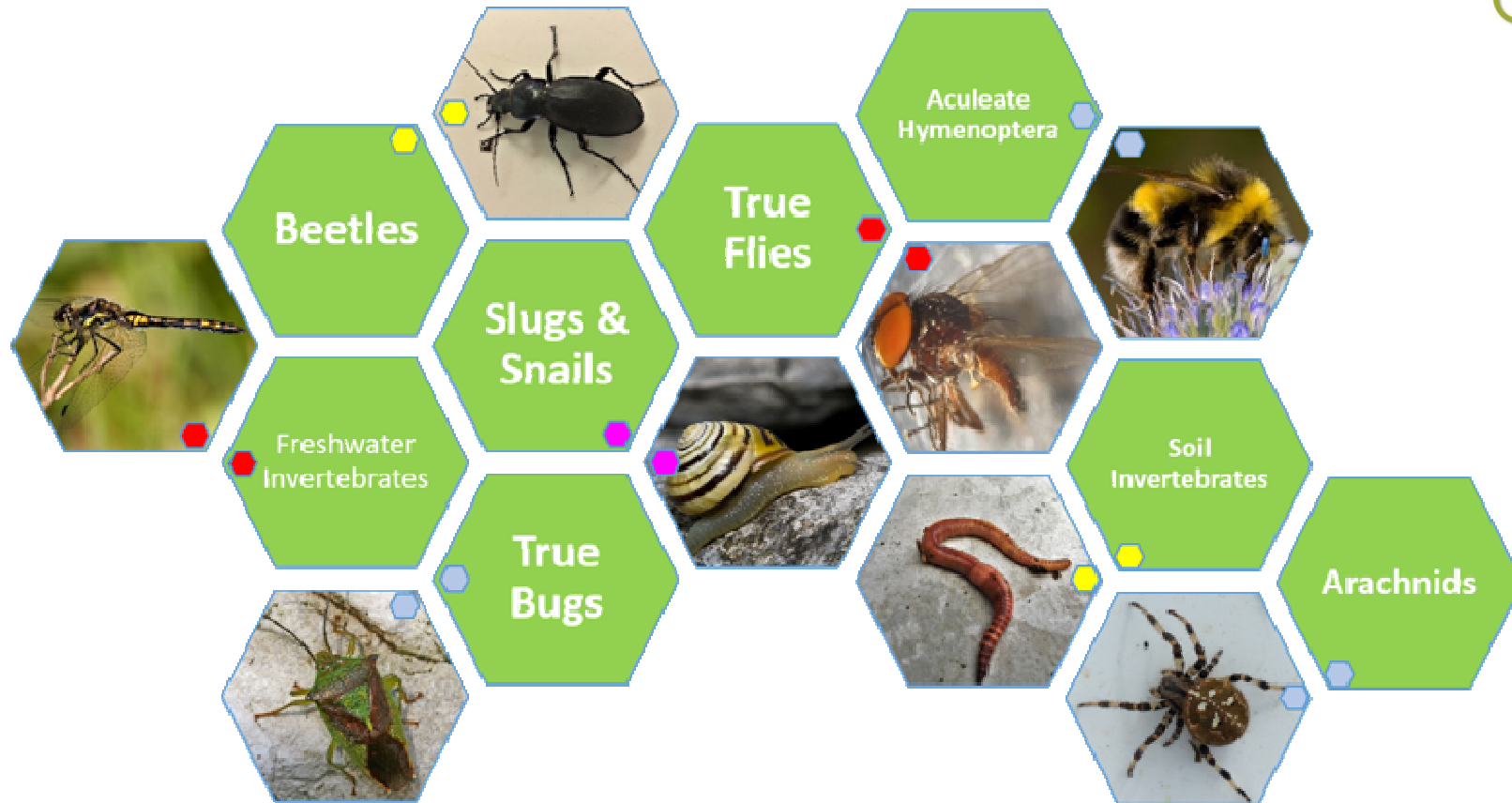
Odiellus spinosus
-0.7

Nemastoma bimaculatum
-2.5

Trogulus tricarinatus
-4.3

Anelasmoecephalus cambridgei

Championing Invertebrates



Introductory  National Expert

Strengthening the network



The Botanical Field Skills Pyramid

Blue = ideal minimum professional level – skills are cumulative up the pyramid

Green = recorders/field surveyors with national status

7. Outstanding – good national referee for a limited taxonomic or habitat group – may write monographs, review taxonomic groups, supervise research students' projects on a species

6. Excellent ID skills – likely to be commissioned nationally for surveying a particular group. Likely to publish. Would probably keep a reference collection.

Minimum level for teaching professional ID courses.

5. Very good ID skills – in one group or more – more-or-less totally reliable for a site survey for that group – would expect to identify any rare species or hybrids or take vouchers for ID.

Would be expected to record at least 75% of their taxa within a site

Would be expected to know about legislation and automatically have appropriate licence. Always uses scientific names

Minimum level for agency employee or consultant and for NVC. Minimum level for FSC associate tutor for non-credit teaching

4. Good ID skills in one group – could be commissioned to survey a site for vascular plants but may miss sub-species and hybrids. Reasonable on grasses, sedges and ferns. Member of relevant recording society. Should automatically submit records. Should use mostly scientific names.

Ideally, schemes and societies should aim for this as the minimum for active recorders and VC recorders

Minimum level for FSC tutor. Minimum level for a recorder to have their records accepted. Phase 1 survey level

3. Reasonable ID skills – some flowering plants, some common grasses, sedges or ferns – an improver. Should be aware of relevant national recording society. May be a member. May submit records locally. Uses common names usually.

Can include the 'village expert', and may lead informal walks

2. Some ID skills – can ID common flowering species, for example but not capable of producing a comprehensive site list. No grasses, sedges or ferns, but some rushes. May have attended on courses but not familiar with collecting and refereeing of voucher specimens. Unlikely to be a member of relevant recording society although may be a member of a local recording group. Uses common names.

1. Basic ID skills – can recognize a buttercup, daisy or plantain. No grasses, sedges or ferns. May not have attended any sort of training course in identification, but intends to work/record in that area. Usually not a member of BSBI. Probably unaware that they are at this level but would like to be at one of the above levels (often a recent undergraduate).

0. General populace with no current engagement in field botany

Volunteer training pathway

Knowledge

Skills

Motivation

Confidence

National Expert Level



Regional Expert Level



Advanced Level



Intermediate Level



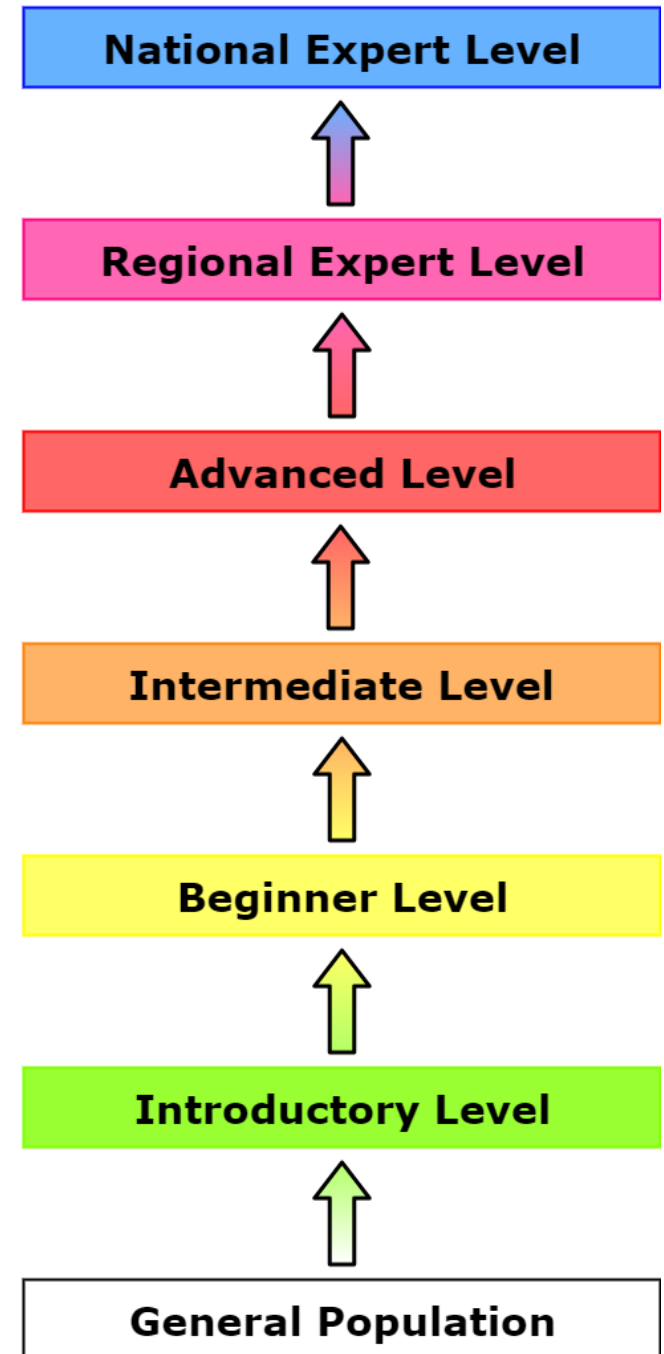
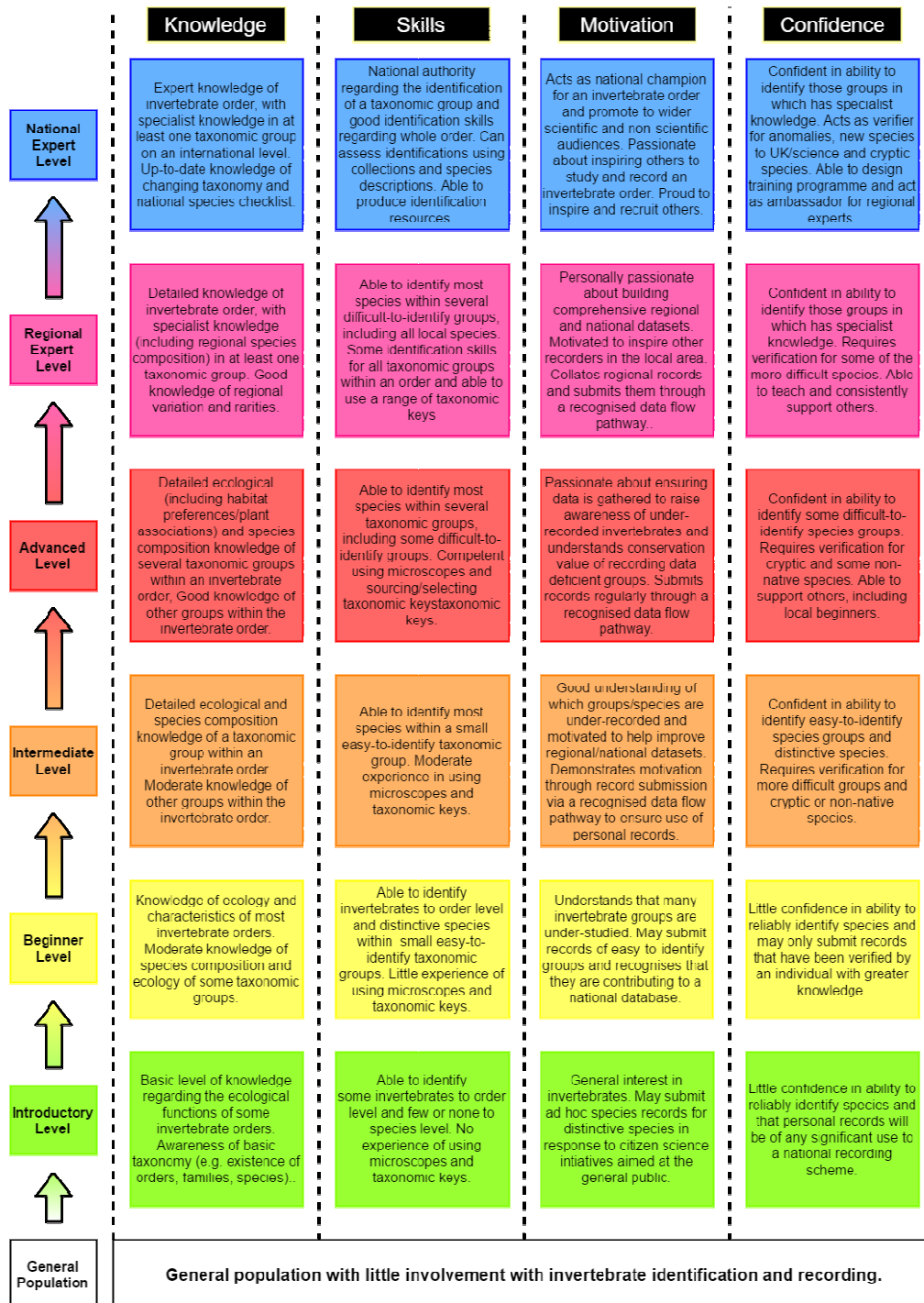
Beginner Level



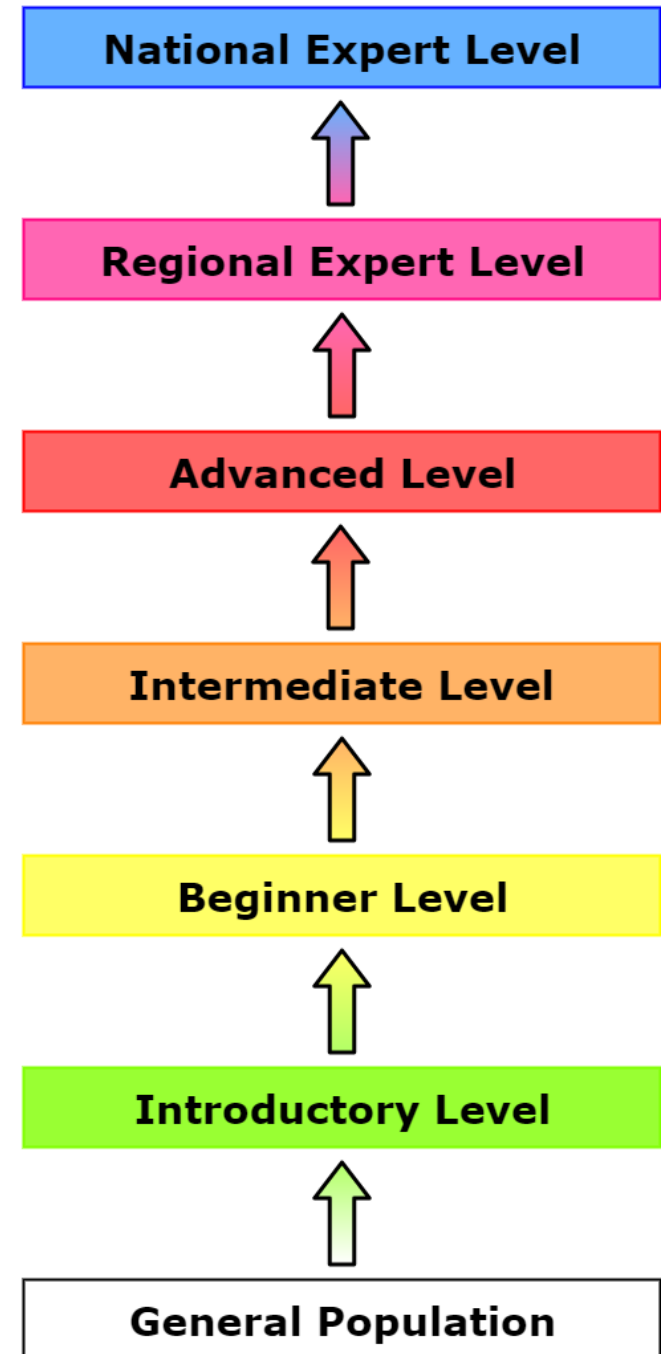
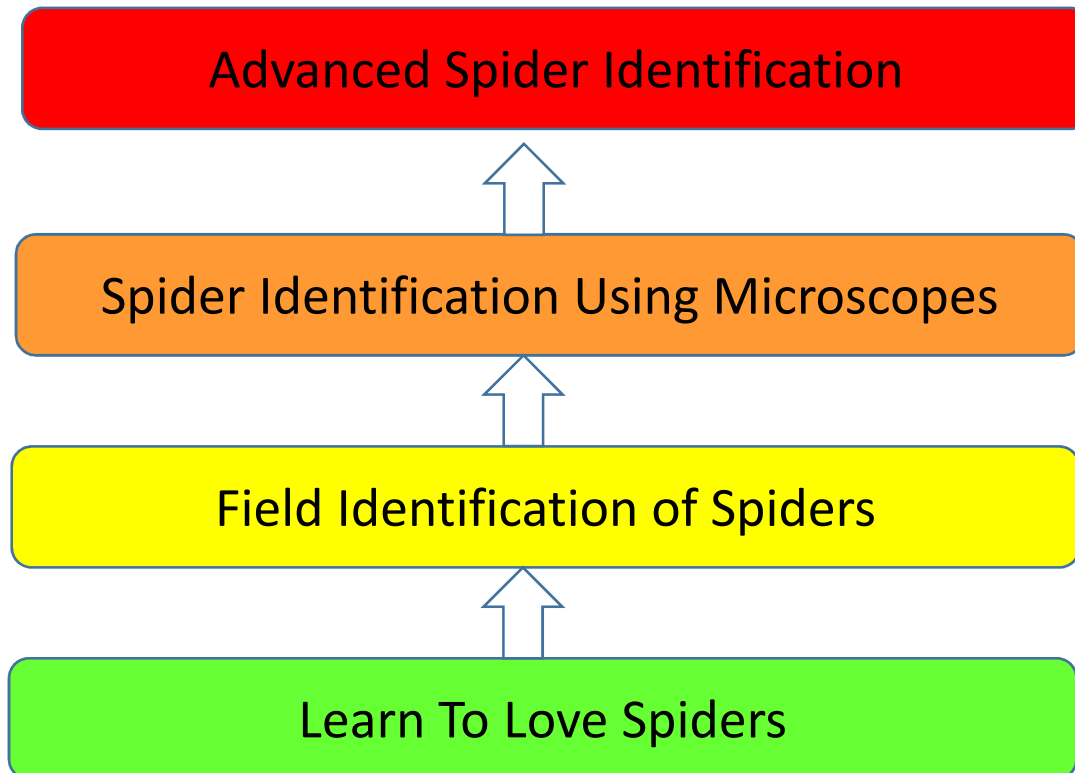
Introductory Level

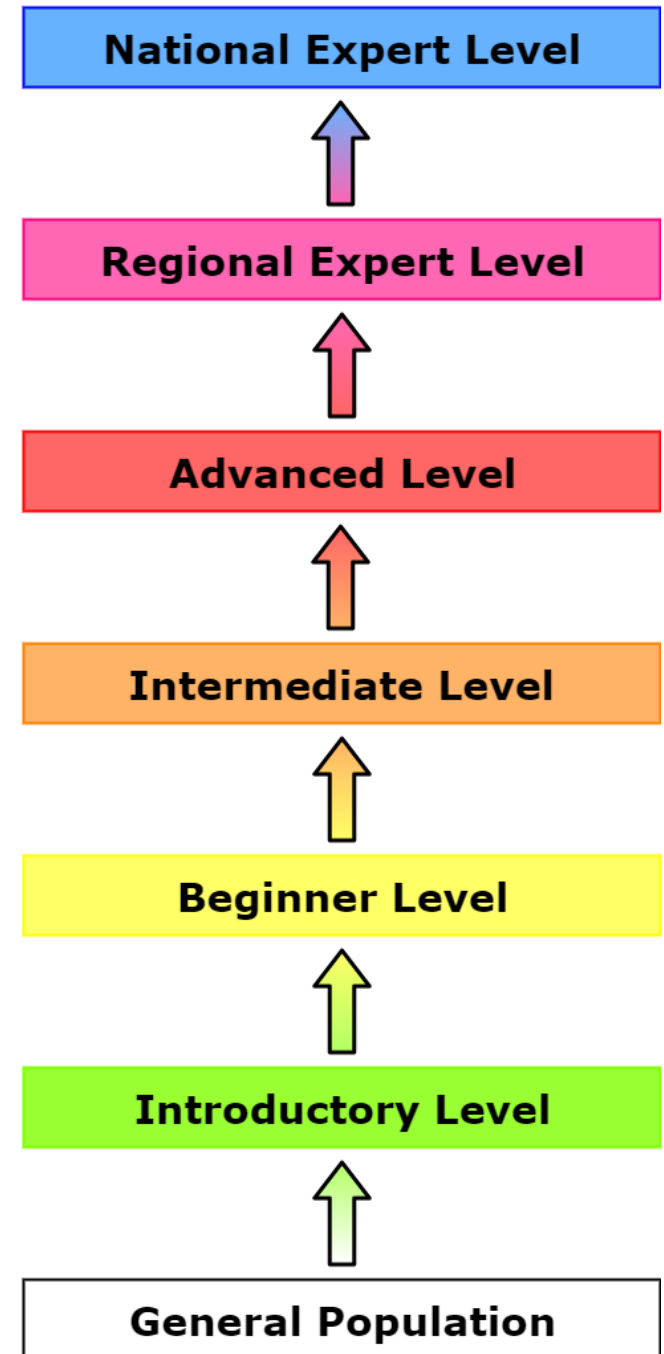
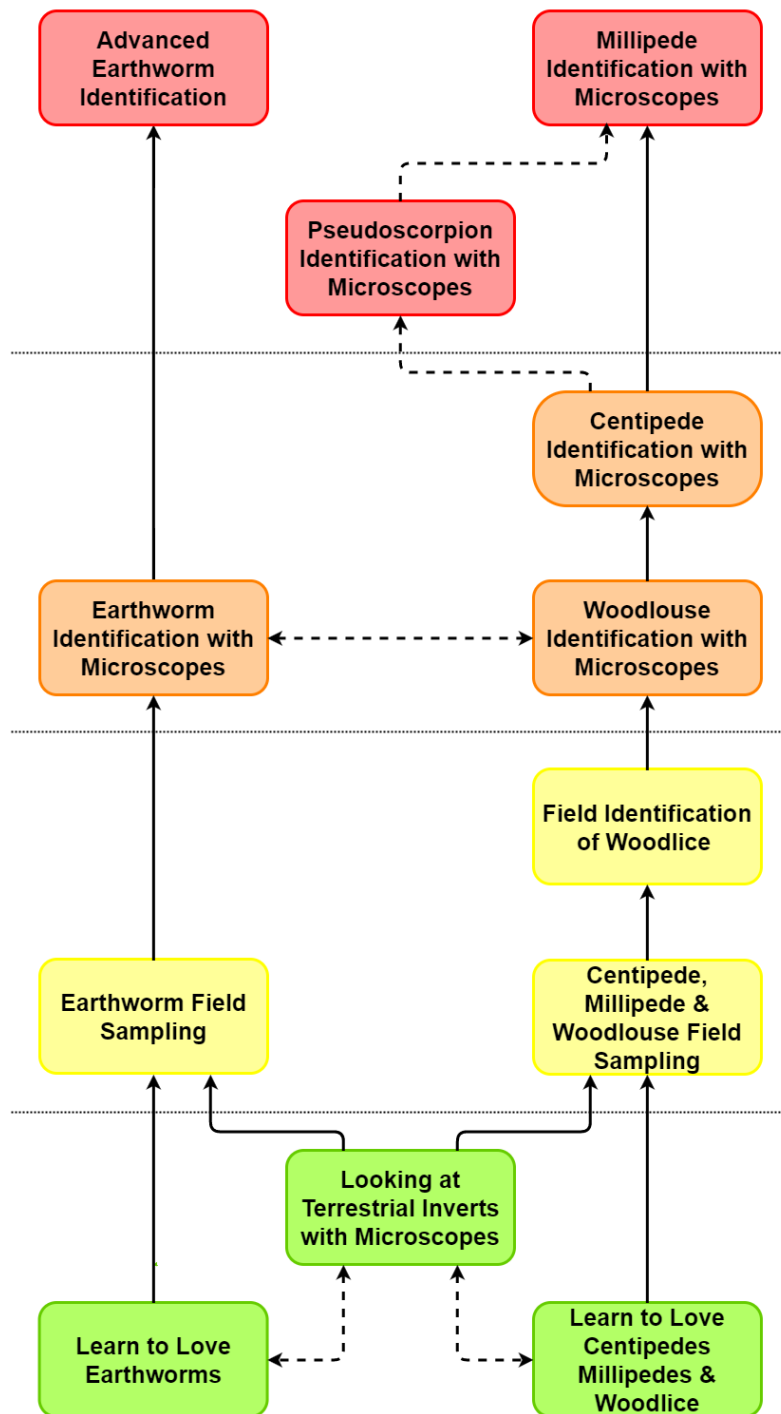


General Population

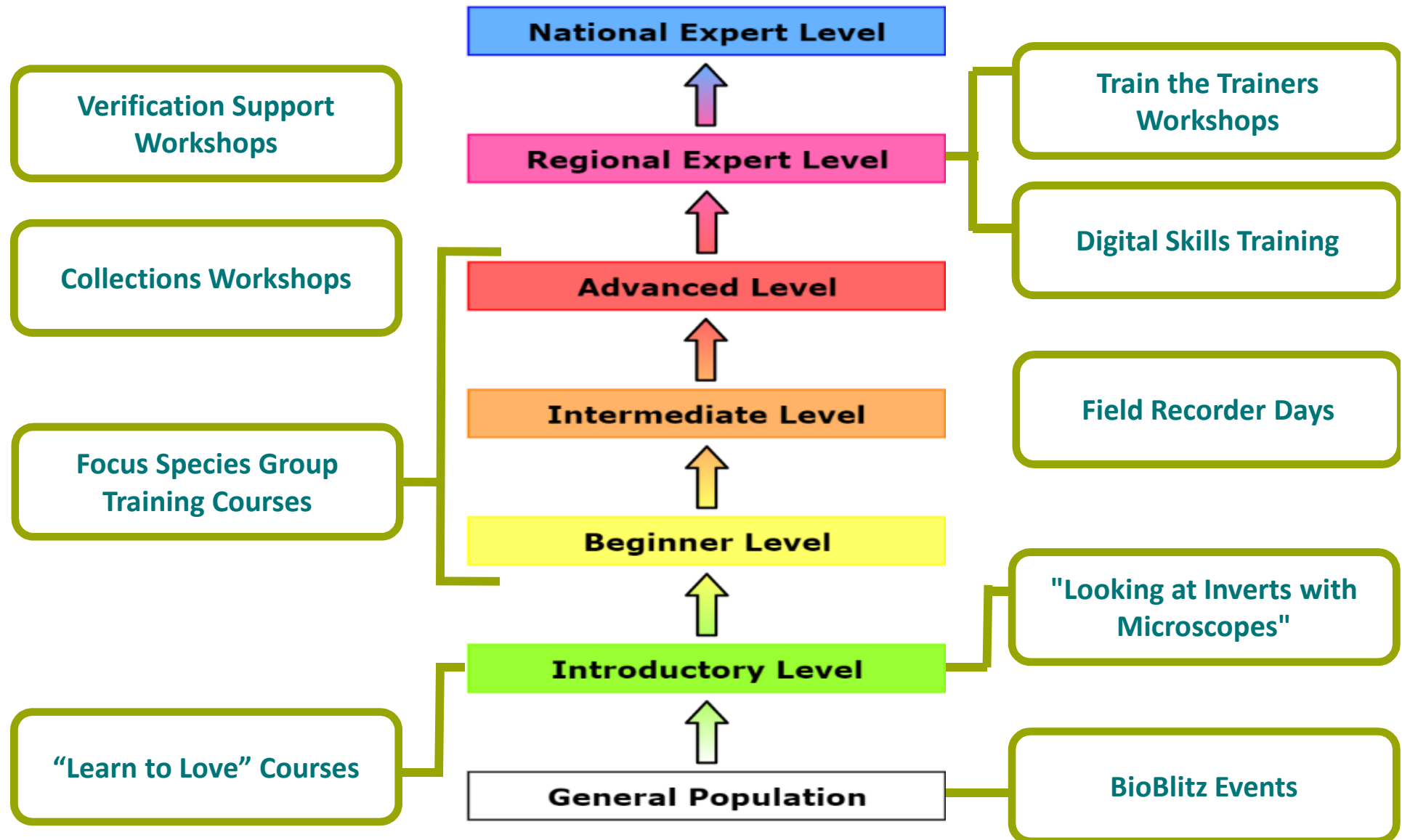


The FSC Tomorrow's Biodiversity Project 'Spider Training Model'

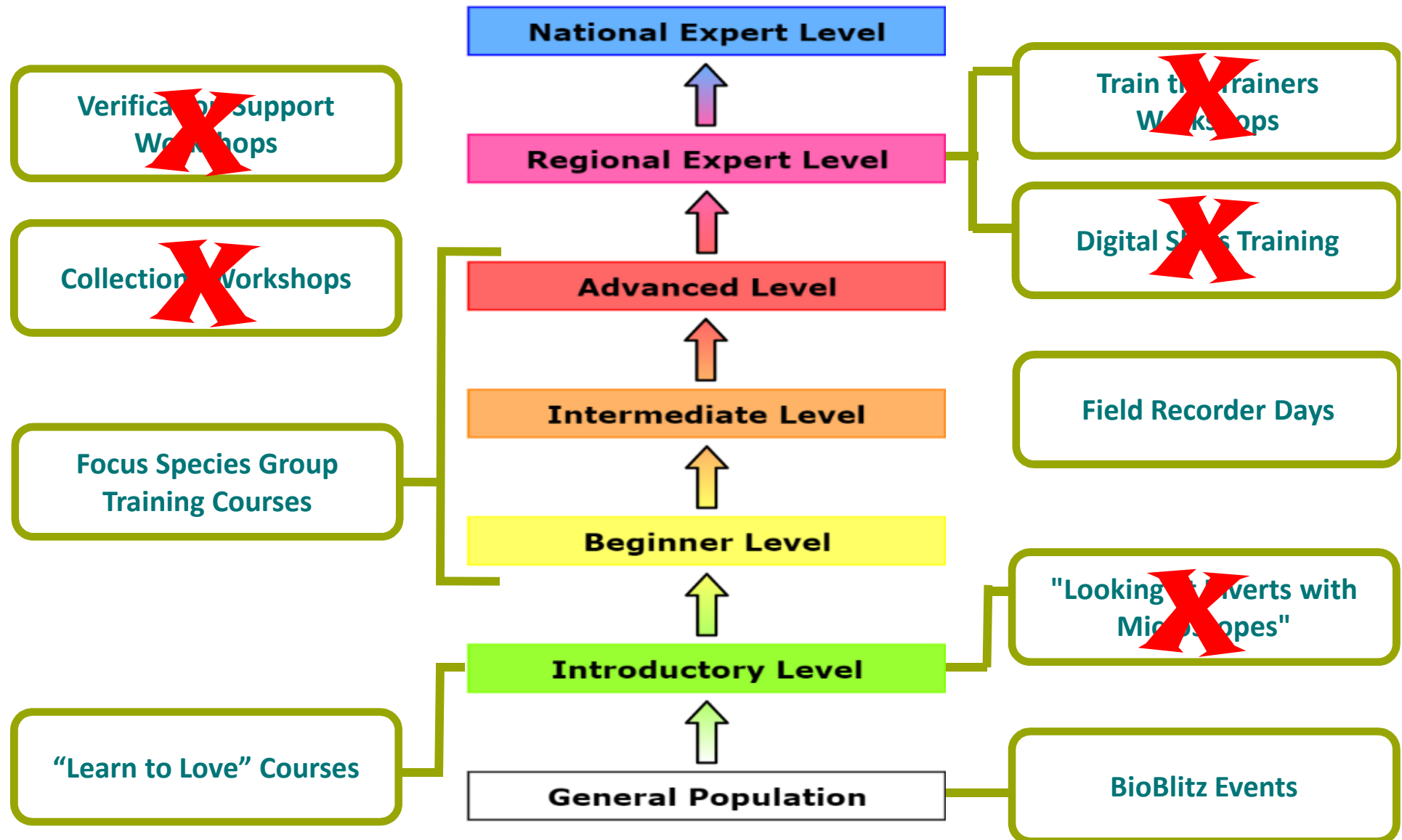




Supporting the Recorders



Biological Records



Managing Sites For Invertebrates



- FSC BioLinks volunteer recorders record invertebrates on site
- FSC BioLinks staff collate records and produce invertebrate assemblage list



**Invertebrate Assemblage
List**



Field Recorder Days



**Habitat Quality
Assessment**

- FSC BioLinks staff provide invertebrate assemblage list and Pantheon guidance to site manager
- Site manager uses Pantheon to undertake habitat quality assessment for site invertebrate assemblages



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Sign up to the FSC BioLinks e-Newsletter to hear about events when they're open to bookings:

www.fscbiodiversity.uk/biolinks-signup



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 heritage
lottery fund
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