Objectives of the YRE Programme

✓ empower students to become active learners
✓ provide students with a vision of the professional world
✓ develop skills along with knowledge in school education
✓ use the internet and new educational technologies for learning and communication
✓ understand the issues of sustainable development and citizenship
✓ develop teacher - students collaboration on a common project
Biology syllabus: practical investigations

(a) Aims and Objectives
The overall aim of the practical component is to instil in candidates a favourable attitude toward the subject by:

✓ generating interest, enthusiasm and enjoyment;
✓ encouraging initiative and imagination;
✓ developing self-reliance;
✓ introducing, developing and reinforcing theoretical concepts;
✓ developing a critical awareness of experimental design;
✓ developing an ability to interpret data; and
✓ foster a scientific approach to life.
10. **Fieldwork:** If possible this should be done on a regular basis at different times of the year and in different habitats to include land, freshwater and marine habitats. Fieldwork reports should include **write-ups** of the **investigations** carried out in the field. These write-ups should relate and apply theoretical biological knowledge to the results obtained from the investigations.


26. **Visits to various places of biological interest:**

a. Experimental farm
b. Fish farm
c. Plant Nursery
d. Recycling of solid waste and sewage treatment plant
e. Nature reserves
f. Brewery/winery
g. Water treatment plant
h. Dairy plant
i. Reverse osmosis plant
j. Natural history museum
k. Blood banks

**Lengthy reports based on uncritical downloading** of information about the theme being studied should be discouraged. Candidates are expected to present concise write-ups relating and applying biological principles to the observations made during the visit.

SEC Syllabus (2009): Biology
## The general presentation of biology reports

<table>
<thead>
<tr>
<th>Experiments involving ...</th>
<th>Number of practicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>... identification and classification of organisms</td>
<td>0 - 2</td>
</tr>
<tr>
<td>... investigation of life processes</td>
<td>Up to 10</td>
</tr>
<tr>
<td>... problem solving situations</td>
<td>At least 3</td>
</tr>
<tr>
<td>... fieldwork investigations</td>
<td>1 - 3</td>
</tr>
<tr>
<td>... visits to sites of biological interest</td>
<td>1 - 3</td>
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