

## O Level Human and Social Biology (5096)

### How many lessons per week will I need to cover the syllabus?

This partly depends on what your students have done before they begin their O Level course. If they have been in your Centre for some years beforehand, then you may have been able to begin building up their knowledge and skills already. If they come to you from many different backgrounds, then you may need to do more work with them to prepare them for O Level. As a rough guideline, many Centres teach their O Level Human and Social Biology students for about 2 hours 30 minutes per week over a 2-year period, but it is not unusual for the time allocated to be significantly more or less than this. You should try to have one relatively long session each week, so that your students can carry out practical work.

### There is no Practical paper, so my students don't need any laboratory experience, do they?

Yes, they do need to have some laboratory experience. The theory paper contains questions that are about practical work and set in practical contexts. The syllabus makes it clear, in the Aims, in both Assessment Objectives A and B, in the Scheme of Assessment and in the Subject Content, that the course should have a practical component and that candidates should have some experience of doing (as well as seeing) experimental work. The questions in the theory paper will assess practical skills, including both data handling and familiarity with standard laboratory equipment. Any candidates without experience of doing practical work will be disadvantaged in this paper.

The Subject Content listing in the syllabus identifies suggestions for practical work with an \*. Using practical work as a teaching tool gives students the opportunity to learn by hands-on doing. Practical work is thus an excellent way of enabling candidates to build an understanding of specific theoretical perspectives of Human and Social Biology. A Human and Social Biology qualification without any practical component at all would be a second-rate assessment of the subject, and CIE aims to provide valid qualifications acceptable in all areas of the world.

### What equipment should we have in our laboratories?

Much useful information is given in Cambridge International Examination's booklet *Planning for Practical Science in Secondary Schools*, (New Edition June 2002) available free from our publications department. In order to fulfil the practical suggestions in the O Level Human and Social Biology syllabus the following equipment and materials could be used:

- Access to a microscope sufficient to see plant and animal cells (1h)
- Visking (dialysis) tubing) (onion epidermis (needs a microscope) or citrus fruit cells are suggested as alternatives) (1j)
- Benedict's reagent, iodine in potassium iodide solution (often termed iodine solution), biuret reagent (or  $1 \text{ mol dm}^{-3}$  sodium hydroxide solution and  $0.5 \text{ mol dm}^{-3}$  copper sulphate solution), absorbent paper suitable for the grease spot test (3a)
- Disclosing tablets to show bacteria on teeth (diluted food colouring may work if these are not available) (4c)
- Amylase enzyme (diastase will work well and is cheap), starch suspension (made fresh by boiling starch in water and filtering to remove starch grains), iodine solution (see above), source of heat (e.g. bunsen burner or gas ring or hot plate),  $1 \text{ mol dm}^{-3}$  sodium hydroxide solution and  $1 \text{ mol dm}^{-3}$  hydrochloric acid solution (to be added 1 drop at a time to change pH), universal indicator paper or liquid with colour chart to measure pH (4e)
- Lime water or bicarbonate indicator (6f)
- Large bowl of water, smaller bowl and plastic tube (6g)
- Filter pump to connect to tap, to draw on lit cigarette, cotton wool to absorb tar, universal indicator paper or liquid to measure pH (6g)
- Human skeleton or model of skeleton; human, animal or model joint (articulated skeleton hanging from a hook is best, but a bag of bones is useful) (7g)
- Sharp knife to cut up kidney (8b) cow, sheep or goat eye (9c)
- Piece of board with pins stuck in it, so the pin heads (blunt end) can be gently rested on skin (9b)
- Long (metre) ruler for dropping for reaction time testing (9n)

# O Level Human And Social Biology Notes

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