



## Immersionbibliografie Lehrmittel für Biologie auf Englisch an Gymnasien

### Lehrpersonen haben mit der Klasse angeschafft:

Allan R., Greenwood T., Shepherd L. (2008) **Senior Biology** volumes 1 and 2 (48.- sFr. per volume) 400 pages per volume

*Kommentar:* Excellent for International Baccalaureate use. Two work books with a lot of text understanding and writing activities. Illustrated only in black and white. There are also booklets with model answers available.

Clegg, CJ (2000), **Introduction to Advanced Biology**, John Murry (Publishers) Ltd, London (reprinted 2001), ISBN 0 7195 7671 7

*Kommentar:* Begonnen habe ich 2003 mit: Clegg, CJ (2000), Introduction to Advanced Biology und habe dann, auf Kent, M. (2000) gewechselt, weil dieses Werk an andere Schulen oft benutzt wird. Nach zwei Jahren habe ich wieder auf Clegg, JC (2000) zurückgewechselt, weil die Sprache einfacher ist und der Inhalt näher an dem ist, was an Schweizer Mittelschulen vermittelt wird. Bei Kent musste ich bei der Bekanntgabe des Prüfungsstoffes immer explizit viele Abschnitte der jeweiligen Texte ausklammern, weil sie zu stark ins Detail gingen oder nicht im unserem Stoffprogramm enthalten waren – bei Clegg muss ich das nicht. Auch der Vorteil der Organisation in spreads kehrt sich häufig ins Gegenteil weil ein zu starrer Rahmen. Clegg hat auch ein gutes Glossary, was in Kent fehlt. Klar, es gibt Informationen, die in Kent besser dargestellt sind als in Clegg und umgekehrt. Insgesamt finde ich die Arbeit mit Clegg einfacher und für die Schüler verständlicher – für das Neusprachliche Gymnasium. Allerdings hat dieses Buch seit dem letzten Jahr einen happigen Aufschlag von ca. 20 Franken durchgemacht und kostet, wenn man weniger als 20 Exemplare bestellt ca. Fr. 87.-.

Kent, M. (2000). **Advanced Biology**. Oxford University Press (OUP).

*Kommentar:* My class has bought this book and we use it at times in lessons. Students use it also for exam preparations. I especially like the way every topic is presented, discussed and completed on one double page (one spread). It has Quick Check questions at the end of every spread and also answers! It is up to date and has just half as many pages as Campbell. And it's from England. However, since it covers Advanced Biology level, language and content can be quite demanding for the students.

Williams, Gareth. **Biology for you**, Nelson Thornes (ISBN 0 7487 6232 9)

*Kommentar:* Für die bi-li Biologie an der Kaufmännischen Berufsmittelschule. Das Buch ist auf GCSE level und wäre wohl für Gymnasien etwas zu einfach. Es ist sehr attraktiv gestaltet, mit Fotos, Zeichnungen, Comics. Enthält Übungsaufgaben (leider ohne Lösungen). Der Text ist gut verständlich, meist kurze Sätze und übersichtlich. Enthält auch viele Beschreibungen von Experimenten.

Es gibt ein Support Pack for Teachers dazu, ein Ordner mit Arbeitsblättern und Kopiervorlagen.

Es gibt vom gleichen Autor auch eine Advanced Version des Buches, auf A-Levels (**Gareth Williams, Advanced Biology for you, Nelson Thornes**). Dieses wäre für Gymnasien evtl. geeignet. Ist auch sehr attraktiv und übersichtlich gestaltet mit gut verständlichen Texten.

## Lehrpersonen benützen für die Vorbereitung:

Toole G. and S. (1999) **Biology**, Stanley Thornes (£28), 700 pages

*Kommentar:* It's from England too but it's not my favourite. I'm not very keen on the layout (it's not very reader-friendly, even though there are lots of illustrations). It has many exam questions but no answers. I do, however, like the similar book on chemistry by Ted Lister and Janet Renshaw. "Chemistry for Advanced level" strikes me as a well-written and well-structured book.

Campbell and Reece (2005), **Biology 7/e**, Benjamin Cummings (about £45), 1250 pages

*Kommentar:* The well-known Campbell Biology (the German translation of the 6th edition is available at Spektrum, CHF 144.-) is the standard textbook for Biology, it's suggested for students of Biology at the ETH and it is now out in the 7th edition. For the **6th edition**: excellent chapter layouts, great illustrations but like the other US-books big and heavy and very demanding for immersion student level. I use it for my own preparations and I like it very much. **A must-have** is the excellent **media package** (6 CD's) accompanying the book that can be bought separately: all illustrations (labelled and unlabelled, with many vector graphics), good narrated video clips, tables, photos, PowerPoint's etc. In the new **7th edition** some topics have been updated to reflect new findings. The layout has also changed somewhat: there is more colour in titles and subtitles, the latter of which now introduce concepts. Concept sections finish with a few concept check questions (with answers in the appendix). Graphics are also often reorganized and now show a tighter integration of images and text, which is quite helpful. Nevertheless, I don't find the more liberal use of colour particularly helpful - the book has gotten a bit gaudy.

Campbell et al. (2008), **Biology Concepts & Connections 6/e**, Benjamin Cummings (about £75 at Amazon (!)), 800 pages

*Kommentar:* Now this is a very neat book also. It's something of an abridged Big Campbell, but has a very helpful layout, a little like Kent M. from OUP: the topics are covered in handy modules, the text is more accessible than in the Big Campbell, key concepts (as the title suggests) are enforced with well structured diagrams and a text that takes you through many diagrams in a step by step manner. Many illustrations are the same as in the Big Campbell, but there are new ones too. I have scanned certain modules for use in class and they are usually well understood.

Purves WK et al. (2006), **Life - The science of Biology 8/e**, Sinauer (£45), 1120 pages

*Kommentar:* This US-book is now in its 7th edition. It is comparable to Campbell (even though I do prefer the latter), it is well written and has very nice illustrations. Specialities are graphics that have something like speech bubbles known from comics. It is at times rather detailed and more suitable for the Biology student than for High School level. I use it for my own preparations. However, check out the excellent companion web site at [www.thelifewire.com](http://www.thelifewire.com) where one seems to have free access to many illustrations from the book and cool interactive (even narrated!) tutorials. Sinauer has also compiled a very good and helpful **Instructors Media library** of 6 CD's with all the illustrations in high resolution (labelled and unlabelled), tutorials etc. to accompany the book.

Solomon EP et al. (2005), **Biology 7/e**, Thomson (£37), 1110 pages

*Kommentar:* Similar to Purves et al. but illustrations, text and layout are not as good.

Lewis R et al. (2003), **Life 5/e**, McGraw-Hill (£39), 1010 pages

*Kommentar:* About like Solomon et al.

Raven PH & Johnson GB et al. (2002), **Biology 6/e**, McGrawHill (35£), 1230 pages

*Kommentar:* Peter Raven is director of the Missouri Botanical Garden and has also produced a fine book on the Biology of Plants. If you would like an alternative to Campbell, here's one. It's big and heavy like all US-Biology books, but it is well written. It's now out in the 7th edition (image on the right), but I have not seen it yet.

Clegg CJ with Mackean DG (2000), **Biology - Principles and Applications 2/e**, John Murray (£28), 720 pages

*Kommentar:* This book has a slightly different approach: topics are often presented with a focus on the underlying principles throughout the living world, i.e. respiration is discussed from worms to insects to mammals. The information here is very dense and not easily accessible. I use it for my own preparations, albeit very infrequently. A big pro however are the very well drawn illustrations.

Clegg CJ et al. (1996), **Biology - Principles and Applications • The Study Guide**, John Murray (£20), 460 pages

*Kommentar:* Accompanying the above book, this one comes with lots of ideas for projects, laboratory practicals & activities (what I have used it for most often) and problems and assignments (with many answers). Good to have for laboratory course work!

Mackean DG (2000), **GCSE Biology 3/e**, John Murray (£28), 720 pages [••]

*Kommentar:* In all books that Mckean produces, great care is taken in the illustrations. I like them very much and have scanned many for use in class. This book is for GCSE level, which is below Advanced level. Depth of coverage is not sufficient for more complex topics (i.e. nerve impulse, genetics, molecular biology of the gene), but as an introduction to themes or for topics where you have chosen not to go into great detail, this is a good book for immersion classes.

King T and Rice M et al. (2001), **Practical Advanced Biology**, Nelson (£21), 336 pages

*Kommentar:* This is the best book for laboratory practicals & activities that I have found. A must have for your laboratory course work!

Tortora G & Grabowski S (2002), **Principles of Anatomy & Physiology**, Wiley (£35), 1240 pages

*Kommentar:* Any questions on human anatomy or physiology? You should find all the answers here! Very good illustrations, many with step by step explanations. Not for the immersion student, but for my own preparations.

Allot A (2001), **Biology for the IB Diploma**, Oxford (16£), 180 pages

*Kommentar:* This is not a textbook, but more of a collection of summary pages (which are quite good) offering a brief and concise overview of one topic per page. It follows the contents for the International Baccalaureate Diploma precisely.

Campbell, N.A., Reece J.B., and Simon E.J. 2004. **Essential Biology - with Physiology**. Pearson-B. Cummings.

Campbell, N.A., Williamson B. and Heyden J.H. 2004. **Biology / Exploring Life**. Pearson-Prentice Hall.

Elson, L.E. (1982). **The Zoology Coloring Book**. Harper Collins.

Johnson, G.B., and Raven, P.H. (2001). **Biology – Principles & Explorations**. Holt, Rinehart and Winston

Miller and Levin (1995). **Biology - Laboratory Manual**. Prentice Hall.

Roberts, M., Reiss M. and Monger G. 2000. **Advanced Biology**. Nelson Thornes.

James Torrance, **Higher Human Biology**, Hodder Gibson

*Kommentar:* Enthält Unit 1: Cell function and inheritance, Unit 2: the continuation of life, Unit 3: behaviour, populations and environment. Ist schwarz-weiss mit sehr schönen Zeichnungen, die sich gut zum Kopieren eignen. Enthält auch Übungsaufgaben (ohne Lösungen)

I. Edward Alcamo, **Biology coloring workbook**, Random House inc.

*Kommentar:* Ein amerikanisches Buch, auf einer Doppelseite jeweils links beschreibender und erklärender Text mit Anleitung zum Ausmalen, rechts die Zeichnung dazu. Ich verwende aus diesem Buch vor allem die Zeichnungen, die sich gut zum Kopieren eignen. Solche Colouring Workbooks gibt es zu verschiedenen Themen.

James Torrance, **Problem Solving in Biology**, Hodder Gibson

*Kommentar:* GCSE level, Aufgabensammlung ohne Lösungen

Sally Morgan, **Practice in Biology**, Progressive questions for AS and A level, Hodder and Stoughton

*Kommentar:* Aufgabensammlung mit Lösungen

Michael F. Fleming, **Biology Teacher's survival guide**, center for applied research in education ([www.phdirect.com/education](http://www.phdirect.com/education))

*Kommentar:* ein sehr amerikanisches Buch, teils lustige Ideen, anregend, nicht alles brauchbar, aber viele Cross-words, word scramble usw. auch einzelne Arbeitsblätter

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(Stand 20.08.08)