

Table of Contents

1 Biotechnology	1
1.1 Red Biotechnology (Tab. 1.2)	3
1.2 Blue Biotechnology	12
1.3 Green Biotechnology (Tab. 1.4).....	21
1.4 White Biotechnology	28
1.5 Grey Biotechnology (Tab. 1.7).	38
1.6 Yellow Biotechnology	40
1.7 Brown Biotechnology	48
1.8 Violet Biotechnology	53
1.9 Dark Biotechnology	61
1.10 Gold Biotechnology – Bioinformatics	66
1.11 Orange Biotechnology	72
1.12 Bioeconomy	73
Bibliography	80
2 Chemistry	81
2.1 General Text 1 (Tab. 2.1)	81
2.2 General Text 2	83
2.3 General Questions	84
2.4 Divide the Class into Six Groups. Choose One Device.	87
2.5 Complete the Equations: (Word Equation and Formula Equation):*	88
2.6 Find Out the Cosmetical Ingredients of the Following Cosmetics:* by a Test in the Laboratory	88
2.7 Name the Safety Signs:*	89
2.8 Give a Sample Sentence for Chemical Activities:*	90
2.9 Tandem Partner:*	90
2.10 Complete the Sentences	93
2.11 Important Vocabulary for Chemistry	93
Bibliography	93

3 Microbiology	95
3.1 General Text (Tab. 3.1).	96
3.2 Mindmap	99
3.3 Name the Parts of the Fungus	99
3.4 Find the Translation for the Parts of a Fungus from Exercise II1.3.	100
3.5 What Are Positive and Negative Effects of Fungi?	100
3.6 Complete the Sentences	100
3.7 Put the Fungi into the Right Column and Find the German Translation	101
3.8 Gaptext.	101
3.9 Important Vocabulary for Microbiology	102
Bibliography	102
4 DNA Fingerprinting	103
4.1 General Text	104
4.2 General Questions	107
4.3 Group Work	108
4.4 Translation	108
4.5 Vocabulary	108
4.6 Plurals	108
4.7 Find the American and the English Expressions for the Following Words	109
4.8 Memory – DNA	109
4.9 Important Vocabulary for DNA	109
Bibliography	110
5 Biology	113
5.1 General Text	114
5.2 Questions	114
5.3 Name the Parts of the Cell and Match Them to the Picture.	115
5.4 Complete the Mindmap	115
5.5 Choose One Cell and Describe It at Least with Five Sentences	116
5.6 Do a Presentation About	116
5.7 Quiz About Cells	116
5.8 Complete the Sentences	117
5.9 Important Words in the Field of Biotechnology	118
Bibliography	118
6 Numbers, Dimensions, Objects, Formulae	119
6.1 Simple Calculations and Basic Numbers.	120
6.2 Equations	120
6.3 Potency.	120
6.4 Most Important Differences in English and German.	121
6.5 Objects	121

6.6	General Questions	122
6.7	Convert the Following Measurements	122
6.8	Describe the Diagrams	122
6.9	Describe the Objects with at Least Six Sentences	125
6.10	Name the Following Calculations	126
6.11	Do Research About the Unit	126
6.12	Find the Nouns of the Following Adjectives	126
	Bibliography	126
7	Manuals	127
7.1	Instruction Manuals	128
7.2	Test Records	129
7.3	Exercises	137
7.4	Catalogue Offer	139
7.5	Product Description	140
7.6	Important Vocabulary in the Field of Manuals	141
	Bibliography	141
8	Presentation of a BIOTA's Work	143
8.1	Complete the Mindmap with at Least 5 Words	144
8.2	Write a Coherent Text About the Work of a BIOTA with the Following Topics	144
8.3	Job Offers for BIOTAs	144
8.4	Presentation About Your Four Weeks Practical Training	144
9	Small Talk in the Laboratory	147
9.1	General Questions	147
9.2	Listening Comprehension	148
10	Further Education for BIOTAS	153
10.1	Explain the Importance of Further Education	153
10.2	Choose One Further Education Out of These Three Examples	154
10.3	What Are Quality Criteria for Good Further Education?	157
	Bibliography	158
11	Working with Specific Dictionaries	159
11.1	General Questions	159
11.2	Compare Three Online Dictionaries!	160
11.3	Partner Work: Pronunciation	160
12	Analysing Websites About Biotechnology	163
	Erratum zu: Fachenglisch für BioTAs und BTAs	E1