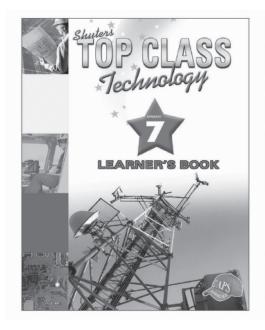
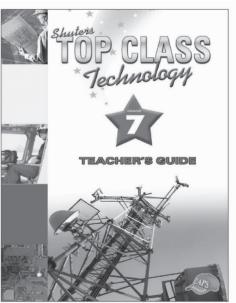


Also available for download from www.shuters.com

Shuters Grade





PHOTOCOPIABLE

OS1001313

CUSTOMER SERVICES THIS SERIES IS ALSO AVAILABLE AS E-BOOKS

www.shuters.com

Tel: +27 (0)33 846 8721 / 22 / 23 • Fax: +27 (0)33 846 8701 sylvie@shuter.co.za • robert@shuter.co.za • tiny@shuter.co.za • thandeka@shuters.co.za





Technology



	TERM 1						
WEEK	UNIT	TOPIC	PAGE	RECORDING	REFLECTION		
	1	Design process skills 1 week (2 hours)	TG 1 LB 1-12				
		 Introduction - What is technology? 	TG 1 LB 1				
		The development of a technology task	TG 3 LB 5				
		Design considerations	TGp 7 LBp 11				
	2	Communication skills 2 weeks (4 hours)	TG 8 LB 13-25				
		Purpose of graphicsConventions	TG 9 LB 15				
		Free-hand sketching	TG 10 LB 16				
		Working drawings	TG 10 LB 18				
	3	Simple mechanisms 2 weeks (4 hours)	TG 14 LB 26-33				
		 Levers – first-class, second-class and third- class 					
	4	Investigation skills 1 week (2 hours)	TG 21 LB 34-44				
		 Practical investigation: Levers and linkages 	TG 14-20 LB 26-33				
		Formal Assessment Task 1: Mini-PAT 3½ weeks (7 hours)	TG 26 LB 39-40				
		 Levers, linkages, hydraulics and pneumatics 	TGp 27 LB 40				
		Formal Assessment Task: Test ½ week (1 hour)	TG 32 LB 45				

			TERM	2	
WEEK	UNIT	TOPIC	PAGE	RECORDING	REFLECTION
	5	Structures 1 week (2 hours)	TG 35 LB 48-55		
		Definition and purpose of structures	TG 36 LB 49-50		
		Classification of structures	TG 37 LB 50		
		Types of structures	TG 37 LB 51		
	6	Investigate a cell phone tower – a frame structure ½ week (1 hour)	TG 40 LB 56-59		
		Investigate a cell phone tower	TG 40		
		Case study: Examine existing towers	TG 41 LB 57		
		 Evaluate advantages and disadvantages of telephone systems 	TG 43 LB 59		
	7	Action research – Stiffen materials and structures ½ week (1 hour)	TG 44 LB 60-65		
		Practical activity 1 – Stiffen a structural material by tubing	TG 45 LB 60		
		Practical activity 2 – Stiffen a structural material by folding	TG 45 LB 61		
		 Practical activity 3 – Stiffen a frame structure by triangulation 	TG 46 LB 62		
	8	Investigating design issues 1 week (2 hours)	TG 47 LB 66-75		
		Case study: Existing cell phone towers	TG 48 LB 66		
		 Class discussion: needs of society and impact of technology 	TG 49 LB 71		
		Case study: Existing designs 1: features of a school desk	TG 50 LB 72		
		Case study: Existing designs 2: features of FM radio or cell phone	TG 51 LB 74		
		Formal Assessment Task 2: Mini-PAT 4 weeks (8 hours)	TG 52 LB 76		



	TERM 2							
WEEK	UNIT	TOPIC	PAGE	RECORDING	REFLECTION			
		Frame structures						
		Formal Assessment Task:	TG 59					
		Test 2	LB 80					
		3½ weeks (7 hours)						

			TERM 3		
WEEK	UNIT	TOPIC	PAGE	RECORDING	REFLECTION
	9	Magnetism	TG 61		
	9	1 weeks (2 hours)	LB 84-87		
		Investigate: What is	TG 61		
		magnetism?	TC C2		
		 Practical investigation: Different types of 	TG 62 LB 84		
		magnets	LD 64		
		Experiment: Which	TG 63		
		substances stick to a	LB 86		
		magnet?			
		Testing metals and	TG 64		
	10	recycling	LB 88-91		
		1 week (2 hours) • Experiment: Which	TG 64		
		metals are attracted by a	LB 88		
		magnet?			
		Case study: Recycling	TG 65		
		scrap metals	LB 89		
		Recycling scheme for	TG 65		
		your school	LB 90		
	11	Simple electric circuits 1 week (2 hours)	TG 66 LB 92-99		
		Simple electric circuits	TG 67		
		Simple electric circuits	LB 94		
		Practical: make a simple	TG 69		
		circuit	LB 96		
		Circuit diagrams using	TG 69		
		correct symbols and components	LB 96		
		Demonstration lesson: A	TG 70		
		simple electromagnet	LB 97		
		Mechanical systems and	TG 72		
	12	control	LB 100-106		
		1 week (2 hours)			
		All complex machinery			
		consist of combinations of simple mechanisms			
		Cranks and pulleys	TG 74		
		- Craims and paneys	LB 101		



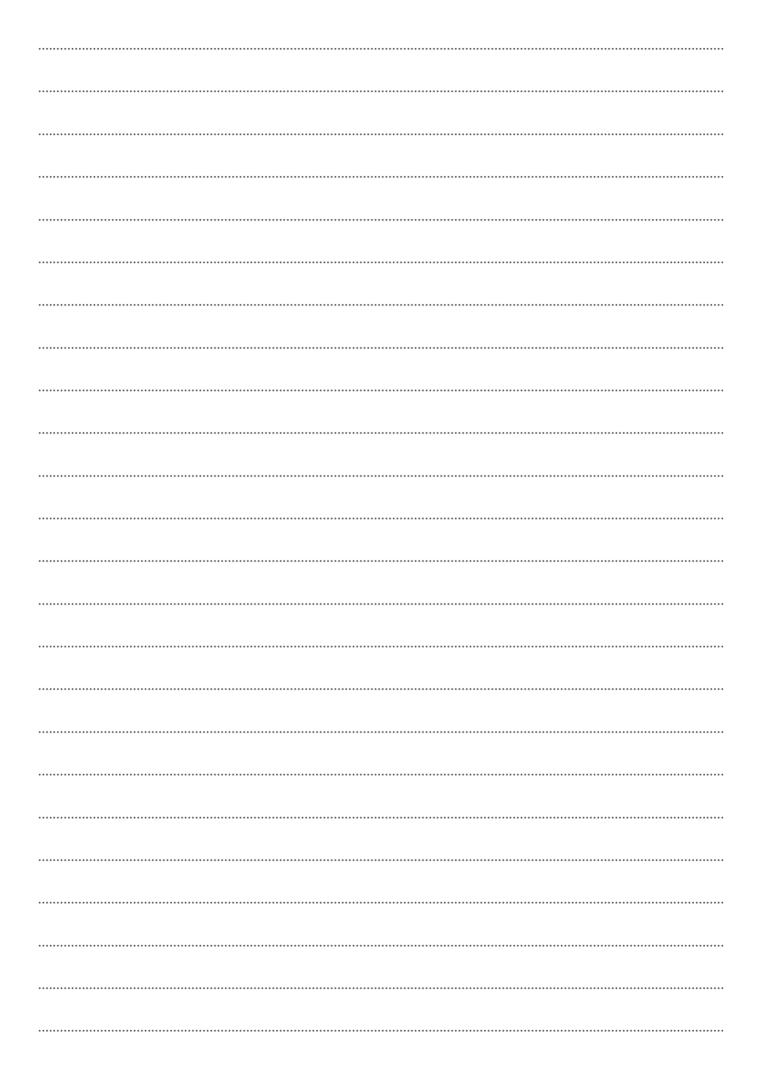
	TERM 3						
WEEK	UNIT	TOPIC	PAGE	RECORDING	REFLECTION		
		Revision: mechanical advantage and strengthening frame structures	TG 75 LB 105				
		Formal Assessment Task 3: Mini-PAT 5½ weeks (11 hours)	TG 77 LB 100				
		Structures and electricity/ cranks and pulleys					
		Formal Assessment Task: Test 3 ½ week (1 hour)	TG 83 LB 114				

	TERM 4						
WEEK	UNIT	TOPIC	PAGE	RECORDING	REFLECTION		
	13	Investigating emergency situations 1 week (2 hours)	TG 85 LB 117-123				
		 Situations that result in people becoming refugees 	TG 85 LB 117				
		 Initial problems faced by refugees 	TG 87 LB 119				
	14	Processing food: emergency food 2 weeks (4 hours)	TG 90 LB 124-128				
		 The types of food that can be given to people in a refugee camp 	TG 92 LB 126				
		 Design brief and specifications of food for a population of 100 refugees 	TG 93 LB 127				
		• List ingredients of a meal that will be nutritious and tasty	TG 91 LB 126				
		Sequence of manufacture					
		 Learners prepare and evaluate a meal 	TG 93 LB 127				
	15	Clothing in specialised occupations 1 week (2 hours)	TG 95 LB 129-135				
		 Textiles that are used to make clothing worn by fire fighters 	TG 97 LB 133				



	TERM 4						
WEEK	UNIT	TOPIC	PAGE	RECORDING	REFLECTION		
		Textiles that are used to make clothing worn by members of the NSRI	TG 98 LB 134				
		Formal Assessment Task 4:	TG 99				
		Mini-PAT	LB 136-139				
		3 weeks (6 hours)					
		 Properties of materials 					
		Formal Assessment Task:	TG 109				
		End-of-year examination	LB 144				
		(1½ hours)					











Most of our titles are also available as e-Books!

For more information, contact:

- Customer Services: 033 8468721/22/23
- Visit our website www.shuters.com

Or scan the QR Business Card shown here:





■■■ more than just paper behind glass ■■■

PLANNING & TRACKING

Also available for download from www.shuters.com

Shuter & Shooter

