







TRAINING NEW STAFF

P5

De<u>Sign</u> and tech<u>E</u>ology is a great practi<u>C</u>al sub<u>J</u>ect.

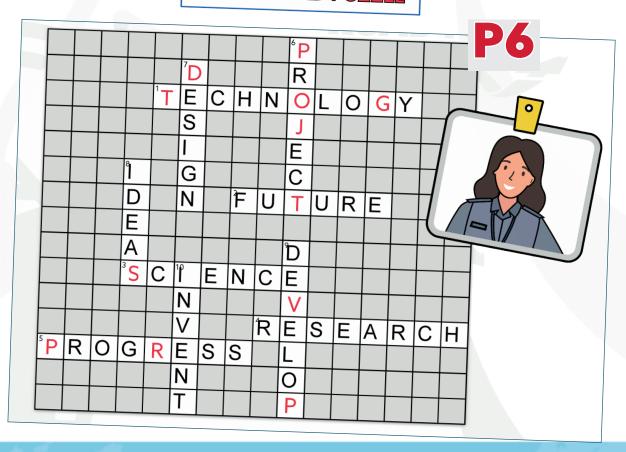
It invol \underline{V} es ma \underline{T} hema \underline{T} ics, scie \underline{N} ce, engin \underline{E} ering, com \underline{P} uting and art.

Using creati<u>V</u>ity and imagi<u>N</u>ation, you can desig<u>N</u> and make $pro\underline{D}ucts$ that solve real <u>W</u>orld $prob\underline{L}ems$ such as climate change. The RAF are on a m<u>I</u>ssion to help $tac\underline{K}le$ cli<u>M</u>ate change and reduce their $car\underline{B}on$ $em\underline{I}$ ssions.

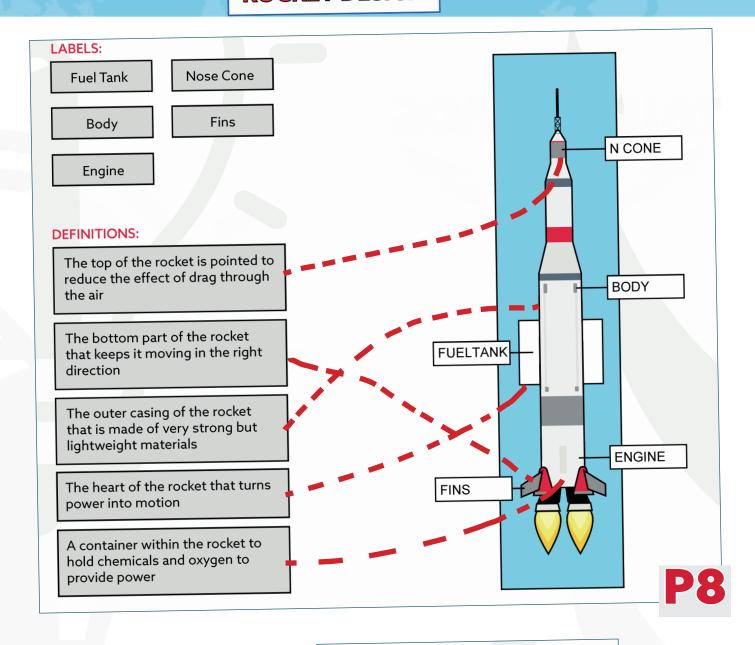
You will learn how to take $ri\underline{S}$ ks, $e\underline{X}$ peri \underline{M} ent and find use \underline{F} ul so \underline{L} utions.

 \underline{Y} ou ca \underline{N} learn all about $\underline{p}\underline{A}$ st and \underline{p} ent desig \underline{N} and \underline{T} echnology and lea \underline{R} n about its im \underline{P} act on dail \underline{Y} lif \underline{E} arou \underline{R} d the wo \underline{R} ld.

CROSSWORD PUZZLE



ROCKET DESIGN



JUMBLED GEOMETRY

How many triangles did you find?

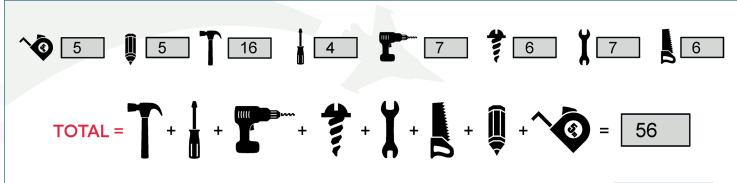
How many squares did you find?

8

How many rectangles did you find?

2

ROCKET DESIGN



P13

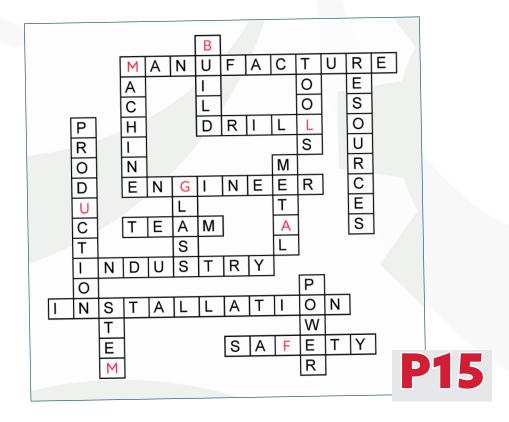
MAXIMUM WEIGHT

Number of crates of cargo to remove:

16

P14

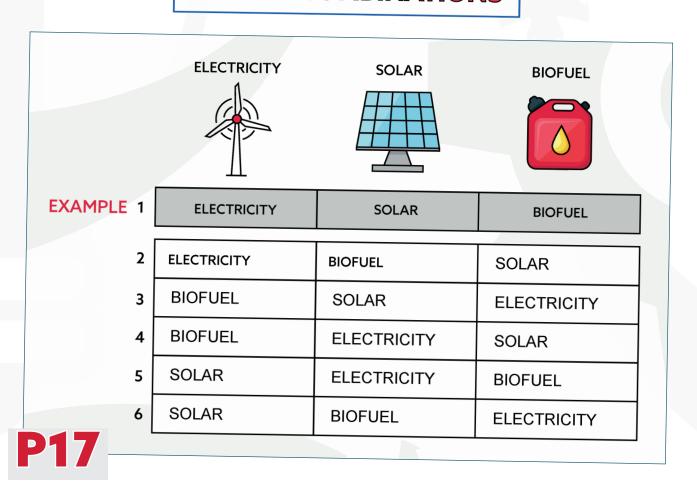
KRISS KROSS



MANUFACTURING

TOOLKIT D	ELECTRONICS E	MACHINE B	
SWITCH G	ENGINEER C	FACTORY F	
ENGINE I	ELECTRICITY A	ASSEMBLE H	
			10

ENERGY COMBINATIONS



COMPUTER VIRUS

P21

SOFTWARE WORDSEARCH

С	U	G	М	W	Q	R	F	N	U	Р	I	L	F
D	G	U	٧	F	0	L	D	Е	R	С	N	Н	С
D	G	R	D	W	Q	В	Н	С	Ε	Υ	F	G	О
F	С	G	Α	W	S	Р	Α	S	S	W	0	R	D
S	0	F	Т	W	Α	R	Ε	В	S	К	R	F	Е
D	М	F	Α	В	J	0	N	В	D	В	М	Т	F
F	Р	D	J	D	F	G	Т	Т	Ε	Е	Α	М	J
R	U	Ε	-	0	Т	R	Ε	w	٧	М	Т	ı	Т
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W	Ε	L	K	N	Н	М	Α	0	L	Р	0	L	х
М	R	F	ı	L	Е	М	W	L	0	Α	N	S	N
U	F	Υ	Κ	0	G	Ε	S	К	Р	w	D	w	Q
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CRACKING THE CODES

CODE SYSTEM:

Α	В	С	D	E	F	G	Н	1	J
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P23

USE THE CODE TO FILL IN THE MISSING WORDS:

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P26

FILL IN THE GAPS

Being a Computer Systems Officer is a very SPECIAL job. Ellie has been working for the RAF for six MONTHS and is enjoying learning. The RAF have developed strong software programmes to keep everything working and to protect the information stored in the COMPUTERS.

It was her RESPONSIBILITY to make sure that the RAF's information was kept SAFE . Some RAF information is confidential, so she has a private password to access the computers. Only authorised people are permitted to use the computers.

She was proud that the RAF computer systems had the latest software technology needed to protect the computers from RISK of attack.

Ellie was very good at her JOB . She enjoyed working with the software and monitoring the activity. She always made sure that the computer was LOGGED OFF securely before she left her desk.

THE PHONETIC ALPHABET

P27

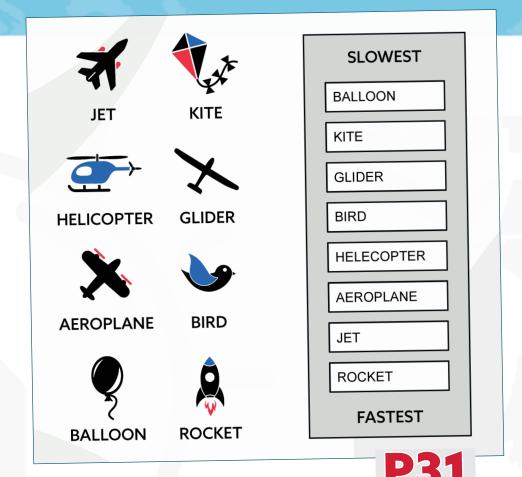
В **F** D G CHARLIE INDIA P K R JULIETT LIMA NOVEMBER OSCAR PAPA MIKE S ZULU **UNIFORM VICTOR** WHISKEY YANKEE WING = WHISKEY **INDIA NOVEMBER GOLF** NOSE = **NOVEMBER OSCAR** SIERRA **ECHO** ROCKET = ROMEO **OSCAR CHARLIE KILO ECHO TANGO** COCKPIT = CHARLIE **OSCAR** CHARLIE **KILO PAPA INDIA TANGO**

WORKING IN PAIRS

On Monday Dylan works with PENNY	
On Tuesday Dylan works with MICHAEL	
On Wednesday Dylan works with ELLIE	

P28

AERODYNAMICS



FASTEST RAF AIRCRAFT

50 x 12 + 300 + 100 + 100 + 150 + 100 + 50 + 70 + 30 + 25 + 6 + 4 = 1535

Can you now work out how much faster than the F35B (below) this is? 307

P32

GRID REFERENCE GAME

There is a group of people sitting on the hillside.
What is the grid reference?

There is a teacher and her pupils at the bottom of the mountain. What is the grid reference?

There is a man sitting near some rocks. What is the grid reference?

There is a lady with her dog standing near a stream. What is the grid reference?

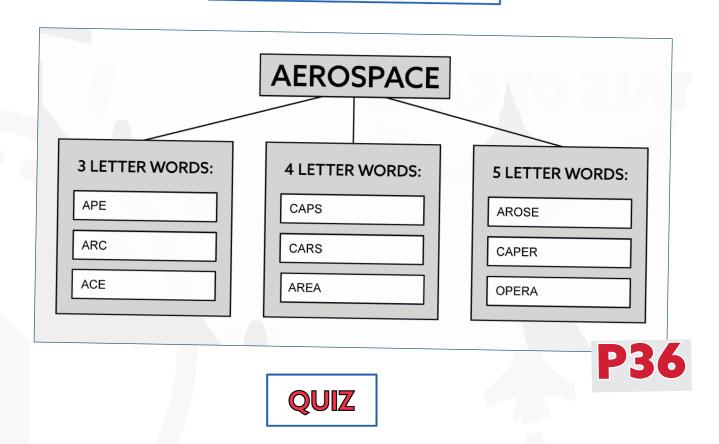
P34

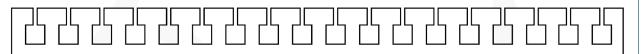
MEMORY HELPER

tnis	mnemonic to ren	nember the order o	f the planets. You	onic. Dylan has made up can see that the initial the planets in order:				
	Most Ver	y Early Martians J	ust S poke U tter	Nonsense				
Can you use the initial letter of each planet to make up your own mnemonic?								
	MERCURY MY	VENUS VERY	EARTH EASY	MARS METHOD				
	JUPITER JUST	SATURN	URANUS US	NEPTUNE NINE				

P35

SMALLER WORDS





- 1. What does the term Mach 2 mean?
- a. Twice as fast as the speed of light
- b. Twice as fast as the speed of sound
- c. Twice as fast as the speed of air

В

- 2. What is meant by Aerospace?
- a. The area within Earth's atmosphere and beyond into outer space
- b. A factory where aircraft are made
- c. A space station in outer space

Α

- 3. The RAF are on a mission to help tackle climate change and reduce what?
- a. The amount of time spent at their computers
- b. Their carbon emissions
- c. The number of trees planted

В

