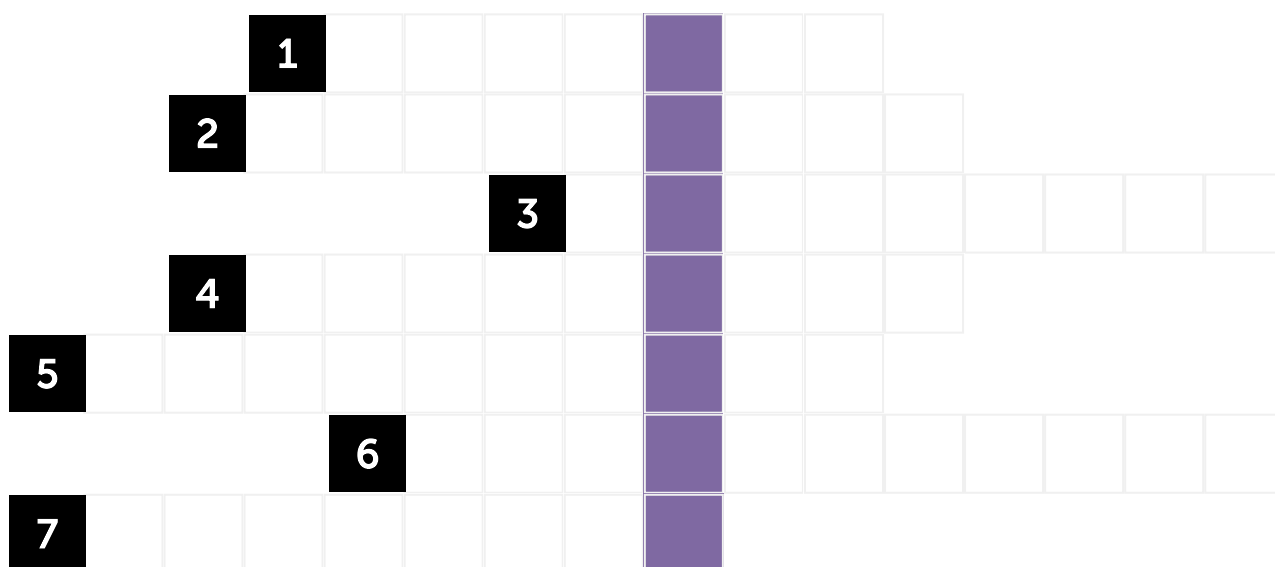


X	A	F	T	C	C	A	S	A	M	Y	P	E	D	K
A	H	L	M	C	R	L	R	T	W	S	R	I	S	B
L	S	Y	K	K	B	A	F	Q	V	P	S	Q	G	C
K	J	J	D	E	M	I	C	Q	M	T	D	N	L	O
A	S	F	C	R	N	P	T	K	I	F	P	Q	D	M
N	U	N	R	I	O	E	D	L	I	C	U	Y	B	B
E	O	R	T	A	M	C	L	J	R	N	U	W	E	U
R	G	E	N	J	C	A	A	U	S	W	G	I	A	S
G	O	Q	I	K	T	T	D	R	Z	B	V	S	T	T
N	L	E	W	I	Z	E	I	G	B	B	S	W	Q	I
A	O	X	O	A	O	R	O	O	Z	O	D	W	E	O
Y	M	N	O	I	L	N	E	Q	N	J	N	O	V	N
E	O	X	L	O	V	L	A	R	Z	O	K	O	I	Z
S	H	M	T	Z	P	B	L	F	Z	R	X	I	U	F
Y	D	B	M	U	F	E	Y	S	K	V	N	U	Q	S

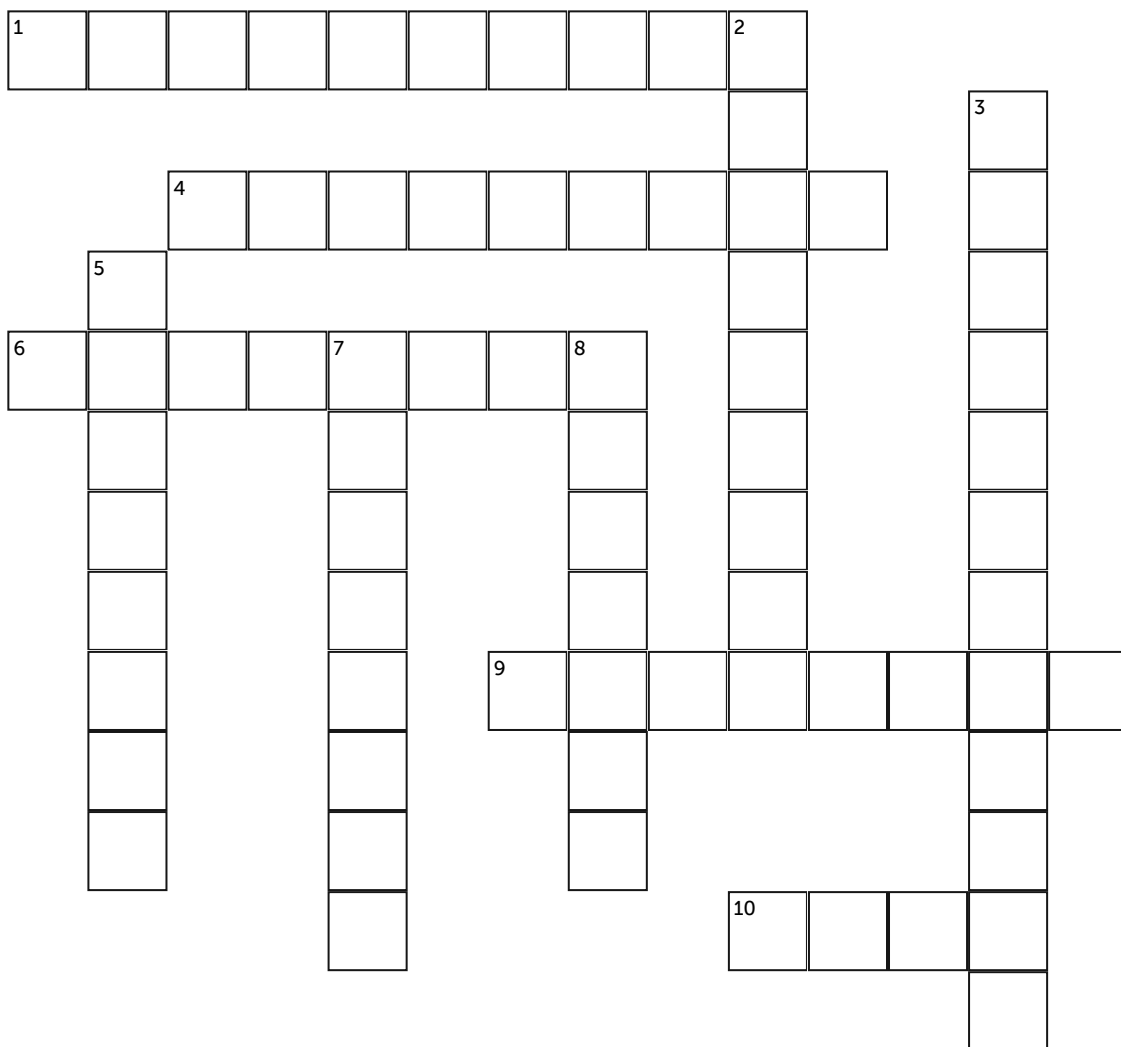
HINTS

crudeoil hydrocarbon finite alkane alkene combustion fraction distillation
 homologous cracking



HINTS

- 1 Used to surface roads and roofs
- 2 The crude oil has to be _____ before entering the fractionating column
- 3 Combustion is an example of an _____ reaction
- 4 The chemicals crude oil contain can be used as _____
- 5 Crude oil is an example of a _____
- 6 Compound that contain only carbon and hydrogen atoms
- 7 The type of combustion where the fuel has enough oxygen to burn



1	2	3	4	5	6	7	8	9	10	11	12	13
---	---	---	---	---	---	---	---	---	----	----	----	----

ACROSS

- 1** Sulfur dioxide is produced when sulfur _____ in fuels react with oxygen
- 4** Increases as hydrocarbon chain length increases
- 6** Long chain alkanes broken down into a smaller alkane and an alkene
- 9** Mixture of hydrocarbons
- 10** Unreacted carbon atoms

DOWN

- 2** A compound containing only single bonds
- 3** Decreases as hydrocarbon chain length increases
- 5** Mixture of similar length hydrocarbon chains, with similar boiling points
- 7** Used as fuel for aircraft
- 8** Members of the same homologous group have the same _____ formula