

Puzzle 1: Astronomy

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Asteroid
Astronaut
Comet
Constellation
Cosmos
Crater
Eclipse
Equinox

Galaxy
Gravity
Light year
Meteor
Moonlight
Nebula
Orbit
Planet

Satellite
Solstice
Spacecraft
Starlight
Supernova
Telescope
Universe
Zodiac

Puzzle 2: Architecture

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Architecture
Archway
Atrium
Balcony
Blueprint
Brickwork
Buttress
Column

Cornice
Courtyard
Dormer
Facade
Floor plan
Foundation
Framework
Gable

Keystone
Masonry
Portico
Skylight
Staircase
Terrace
Truss
Vestibule

Puzzle 3: Ocean Science

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Abyssal
Bioluminescent
Coastline
Continental
Crustacean
Current
Ecosystem
Estuary

Kelp forest
Lagoon
Mangrove
Nautilus
Oceanography
Plankton
Reef
Salinity

Seafloor
Seagrass
Tidepool
Trench
Tsunami
Turbulence
Upwelling
Watershed

Puzzle 4: Weather

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Anemometer
Anticyclone
Atmosphere
Barometer
Blizzard
Cirrus
Cloudburst
Cumulus

Cyclone
Dew point
Drought
Forecast
Humidity
Jet stream
Lightning
Meteorology

Monsoon
Precipitation
Pressure
Temperature
Thunder
Tornado
Visibility
Wind shear

Puzzle 5: World Geography

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Archipelago
Basin
Canyon
Coastline
Continent
Delta
Equator
Glacier

Hemisphere
Isthmus
Latitude
Longitude
Meridian
Mountain
Peninsula
Plateau

Rainforest
Savanna
Topography
Tributary
Tundra
Valley
Volcano
Waterfall

Puzzle 6: Music Vocabulary

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Arpeggio
Bass line
Cadence
Chord
Composer
Conductor
Crescendo
Dynamics

Harmony
Interval
Melody
Notation
Octave
Orchestra
Overture
Percussion

Rehearsal
Resonance
Rhythm
Scale
Symphony
Syncopation
Tempo
Treble

Puzzle 7: Garden Plants

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Annual
Blossom
Compost
Cultivation
Daffodil
Evergreen
Foliage
Geranium

Greenhouse
Ground cover
Horticulture
Hydrangea
Lavender
Marigold
Mulch
Perennial

Pollinator
Pruning
Rhizome
Rosemary
Seedling
Sunflower
Trellis
Wildflower

Puzzle 8: Transportation

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Aeroplane
Bicycle
Carriage
Commuter
Expressway
Freighter
Funicular
Gondola

Helicopter
Hovercraft
Junction
Locomotive
Monorail
Motorcycle
Navigation
Platform

Roundabout
Runway
Sailboat
Scooter
Submarine
Terminal
Transportation
Trolley

Puzzle 9: Literature Terms

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Allusion
Antagonist
Character
Climax
Conflict
Dialogue
Flashback
Foreshadow

Irony
Literature
Manuscript
Metaphor
Monologue
Narrator
Plotline
Protagonist

Resolution
Rhyme
Rhythm
Setting
Simile
Stanza
Symbolism
Viewpoint

Puzzle 10: Laboratory Science

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

FIND THESE WORDS

Analysis
Beaker
Calibration
Catalyst
Centrifuge
Compound
Control
Element

Evidence
Flask
Hypothesis
Laboratory
Measurement
Microscope
Molecule
Observation

Pipette
Precision
Protocol
Reaction
Reagent
Solution
Specimen
Variable

Answer 1: Astronomy

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Asteroid E
Astronaut W
Comet S
Constellation S
Cosmos SW
Crater N
Eclipse NW
Equinox S

Galaxy NE
Gravity E
Light year SW
Meteor E
Moonlight SE
Nebula W
Orbit NW
Planet SW

Satellite SE
Solstice NW
Spacecraft NE
Starlight N
Supernova W
Telescope NE
Universe SE
Zodiac N

Answer 2: Architecture

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Architecture E
Archway N
Atrium SE
Balcony W
Blueprint SW
Brickwork N
Buttress S
Column E

Cornice SE
Courtyard NE
Dormer W
Facade SW
Floor plan NE
Foundation S
Framework SE
Gable E

Keystone NW
Masonry N
Portico NE
Skylight NW
Staircase SW
Terrace S
Truss NW
Vestibule W

Answer 3: Ocean Science

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Abyssal SE
Bioluminescent W
Coastline SE
Continental W
Crustacean N
Current S
Ecosystem NW
Estuary NW

Kelp forest W
Lagoon NE
Mangrove SW
Nautilus S
Oceanography E
Plankton E
Reef S
Salinity SW

Seafloor N
Seagrass E
Tidepool NW
Trench NE
Tsunami N
Turbulence SE
Upwelling NE
Watershed SW

Answer 4: Weather

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Anemometer SE
Anticyclone NE
Atmosphere E
Barometer W
Blizzard N
Cirrus NW
Cloudburst NW
Cumulus SE

Cyclone N
Dew point S
Drought S
Forecast E
Humidity SW
Jet stream SW
Lightning W
Meteorology SE

Monsoon NE
Precipitation S
Pressure SW
Temperature N
Thunder NW
Tornado E
Visibility W
Wind shear NE

Answer 5: World Geography

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Archipelago NW
Basin NW
Canyon SE
Coastline N
Continent S
Delta SW
Equator SW
Glacier S

Hemisphere SW
Isthmus NE
Latitude N
Longitude NE
Meridian NW
Mountain S
Peninsula W
Plateau E

Rainforest NE
Savanna E
Topography SE
Tributary E
Tundra W
Valley W
Volcano N
Waterfall SE

Answer 6: Music Vocabulary

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Arpeggio S
Bass line NW
Cadence NW
Chord SW
Composer SW
Conductor W
Crescendo W
Dynamics S

Harmony N
Interval SE
Melody NE
Notation W
Octave SE
Orchestra N
Overture N
Percussion S

Rehearsal SW
Resonance NE
Rhythm E
Scale E
Symphony NE
Syncopation SE
Tempo NW
Treble E

Answer 7: Garden Plants

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Annual N
Blossom NW
Compost N
Cultivation W
Daffodil W
Evergreen SW
Foliage N
Geranium NE

Greenhouse S
Ground cover SE
Horticulture SW
Hydrangea E
Lavender S
Marigold SE
Mulch E
Perennial W

Pollinator E
Pruning NE
Rhizome NW
Rosemary NW
Seedling SE
Sunflower S
Trellis SW
Wildflower NE

Answer 8: Transportation

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Aeroplane NE
Bicycle SE
Carriage SE
Commuter N
Expressway NW
Freighter NW
Funicular E
Gondola W

Helicopter NW
Hovercraft S
Junction SW
Locomotive N
Monorail NE
Motorcycle W
Navigation SW
Platform S

Roundabout S
Runway E
Sailboat SW
Scooter NE
Submarine E
Terminal SE
Transportation N
Trolley W

Answer 9: Literature Terms

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Allusion SE
Antagonist E
Character W
Climax W
Conflict S
Dialogue SW
Flashback N
Foreshadow SW

Irony SW
Literature E
Manuscript NE
Metaphor NE
Monologue W
Narrator NW
Plotline N
Protagonist SE

Resolution NW
Rhyme NW
Rhythm S
Setting S
Simile NE
Stanza SE
Symbolism E
Viewpoint N

Answer 10: Laboratory Science

20 x 20 grid | 24 words | all 8 directions | words may run backward

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

ANSWER WORDS

Analysis NE
Beaker S
Calibration E
Catalyst SE
Centrifuge S
Compound N
Control W
Element SE

Evidence S
Flask W
Hypothesis NE
Laboratory NE
Measurement E
Microscope E
Molecule NW
Observation N

Pipette SW
Precision NW
Protocol SW
Reaction NW
Reagent SE
Solution N
Specimen SW
Variable W