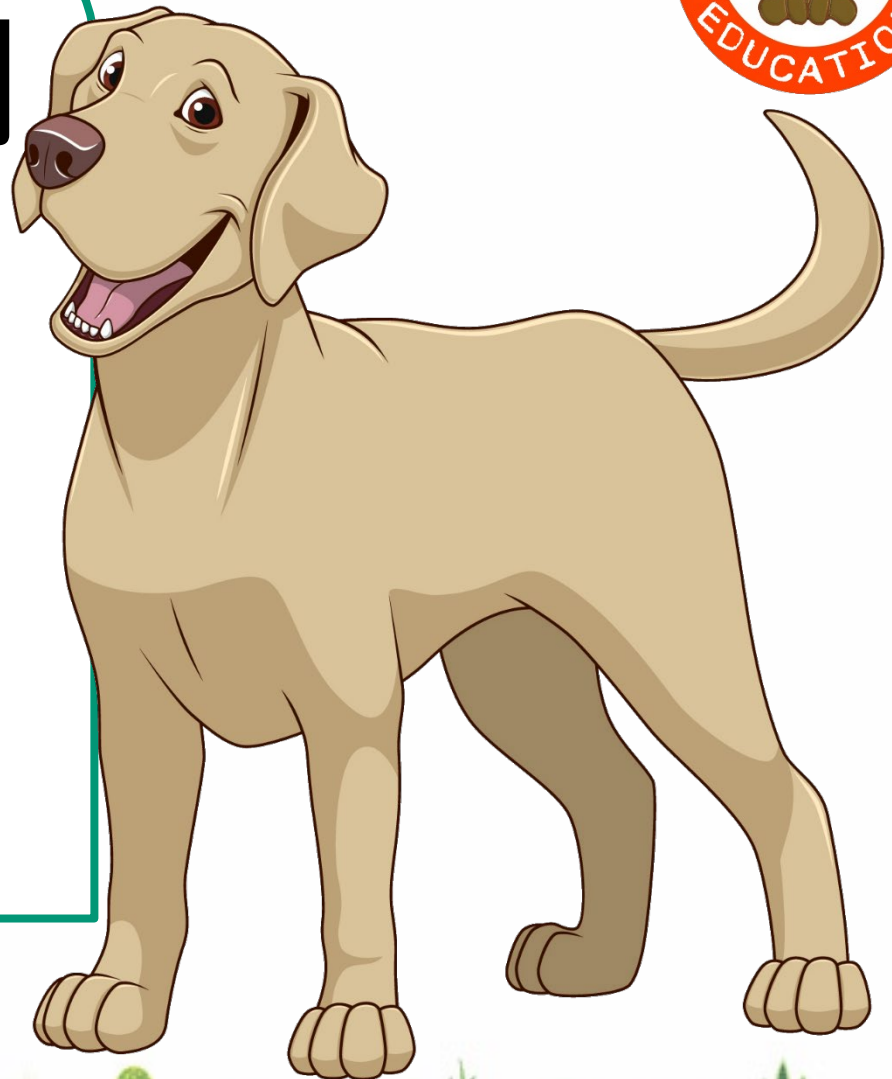


Discovering Plants and Animals Science Topic

FIRST LEVEL



CONTENTS

Outcomes

PACE Planner

Introductory Lesson

PART ONE

What are Plants?

PART TWO

Growing Plants

PART THREE

Classifying Plants

PART FOUR

What are Animals?

PART FIVE

Classifying Animals

PART SIX

Food Chains

BLURB

Find out about plants and animals!

Discover the parts of a plant and learn about the life cycle of a plant. Find out how we grow plants and what we use them for. Learn about different types of animals. Find out about classifying plants and animals. Learn about the role of plants and animals in food chains.

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FOUR FEATURE PLAN

TOPIC OR THEME	LEVEL	CURRICULUM AREA	TEACHERS
DISCOVERING PLANTS AND ANIMALS	1 st	Science	

CURRICULUM FOR EXCELLENCE OUTCOMES

ART AND DESIGN

I can create a range of visual information through observing and recording from my experiences across the curriculum.

EXA 1-04a

HEALTH AND WELLBEING

I make full use of and value the opportunities I am given to improve and manage my learning and, in turn, I can help to encourage learning and confidence in others.

HWB 1-11a

I value the opportunities I am given to make friends and be part of a group in a range of situations.

HWB 1-14a

Through taking part in a variety of events and activities, I am learning to recognise my own skills and abilities as well as those of others.

HWB 1-19a



HEALTH AND WELLBEING

I can describe some of the kinds of work that people do and I am finding out about the wider world of work.

HWB 1-20a

By investigating the range of foods available I can discuss how they contribute to a healthy diet.

HWB 1-30a

LITERACY

When I engage with others, I know when and how to listen, when to talk, how much to say, when to ask questions and how to respond with respect.

LIT 1-02a

I can select ideas and relevant information, organise these in a logical sequence and use words which will be interesting and/or useful for others.

LIT 1-06a

Using what I know about the features of different types of texts, I can find, select, sort and use information for a specific purpose.

LIT 1-14a

I can present my writing in a way that will make it legible and attractive for my reader, combining words, images and other features.

LIT 1-24a

I am learning to use my notes and other types of writing to help me understand information and ideas, explore problems, generate and develop ideas or create new text.

LIT 1-25a



SCIENCE

I can distinguish between living and non living things. I can sort living things into groups and explain my decisions.

SCN 1-01a

I can explore examples of food chains and show an appreciation of how animals and plants depend on each other for food.

SCN 1-02a

I can help to design experiments to find out what plants need in order to grow and develop. I can observe and record my findings and from what I have learned I can grow healthy plants in school.

SCN 1-03a

By comparing generations of families of humans, plants and animals, I can begin to understand how characteristics are inherited.

SCN 1-14a

I have contributed to discussions of current scientific news items to help develop my awareness of science.

SCN 1-20a



TECHNOLOGIES

As I extend and enhance my knowledge of features of various types of software including those which help find, organise manage and access information, I can apply what I learn in different situations.

TCH 1-03a

I can access, retrieve and use information from electronic sources to support, enrich or extend learning in different contexts.

TCH 1-03b

I explore and experiment with the features and functions of computer technology and I can use what I learn to support and enhance my learning in different contexts.

TCH 1-04a

I can create, capture and manipulate sounds, text and images to communicate experiences, ideas and information in creative and engaging ways.

TCH 1-04b



PURPOSE	ACTIVITIES	CRITERIA	EVIDENCE
<ul style="list-style-type: none"> I am developing my understanding of plant species and where they are found. I am expanding my knowledge of how plants grow. I am learning about the life cycle of a plant. I am discovering the different parts of a plant. I am learning why and how plants are classified. I am learning about different animal species and where they are found. I am finding out about the life cycle of an animal. I am learning about the difference between domesticated animals and wild animals. I am finding out what animals eat and where they live. I am learning about classifying animals and classification categories. I am learning about plants and animals in the food chain. I am learning how to record the results of an experiment. 	<ol style="list-style-type: none"> Complete a worksheet on plants. Design a floorplan for a garden. Investigate various plants. Complete a worksheet on growing a plant. Draw a plant and label its parts. EXPERIMENT – grow a plant from a seed Complete a classifying plants diagram. Draw a deciduous tree and an evergreen tree. Complete a worksheet on classifying plants. Complete a worksheet on animals. Sort animals into groups. Research cats or dogs. Complete a worksheet on classifying animals. Classify animals as vertebrates or invertebrates. Draw and label a dinosaur. Complete a worksheet on food chains. Use drawings to show a food chain. Create a food chain. 	<ul style="list-style-type: none"> I can explain the purpose of different types of plants. I can explain and label the different parts of a plant. I can explain how plants reproduce and grow a plant from a seed. I can explain the categories used to classify plants. I can talk about different animals species and give examples of places in which they are found. I can explain the difference between domesticated and wild animals. I can explain what animals eat and where they live. I can discuss and explain the different classification categories used for animals. I can classify animals. I can explain and show how a basic food chain works. 	<p>MAKE Design a floorplan for a garden. Draw a deciduous tree and an evergreen tree. Draw food chains.</p> <p>SAY Report findings on growing a plant. Report back on research.</p> <p>DO Investigate various plant species. Draw a plant and label its parts. Grow a plant from a seed. Complete a classifying plants diagram. Sort animals into groups. Classify animals.</p> <p>WRITE Complete worksheets on plants, growing a plant, classifying plants, animals, classifying animals and food chains.</p>



Discovering Plants and Animals – Introductory Lesson

The purpose of this lesson is to get an idea of what the children already know about the subject. It is a co-operative lesson for the whole class to get involved. Spelling and handwriting are not important.

At the end of the topic it will be useful to re-visit the results of this lesson and hold a class Q&A to discuss what they have found out and any unanswered questions they still have. The Q&A could be part of an ICT lesson where the children research their unanswered questions.

SPLIT THE GROUPS

In order to get randomly selected groups ask the children to sort themselves into date of birth order. Then split the children into groups of 4 i.e. the first 4 children are one group and so on.

Once in their groups the following jobs should be randomly allocated:

1. Group Leader (who likes flowers?)
2. Writer (who has the next birthday?)
3. Reporter (who has a pet?)
4. Timer (who likes dogs?)

Sheets of A2 paper are laid out on the desks each sheet should be labelled with one of these titles:

1. What are Plants?
2. Growing a Plant
3. Classifying Plants
4. What are Animals
5. Classifying Animals
6. Food Chains

Then split the sheet into two columns:

1. What do I know?
2. What do I want to find out?

The groups then rotate around each sheet. A time limit should be given.



CONTENTS

PART ONE

What are Plants?



What are Plants?

TEACHER'S NOTES

In this section we are going to find out about plants. We will discover what plants are, why they are important to life and look at different types of plants.

Plants grow inside and outside, we use plants for food and for decoration.

FARM PLANTS

Plants on a farm are usually grown for food. Crops including wheat, oats, barley, fruit and vegetables are used as food for people and for animals.

HOUSE PLANTS

House plants include: spider plant, cactus, yucca and palm. They are used for decoration.

DID YOU KNOW?

There are around 350,000 species of plants in the world today. The number changes when new plants are discovered or plants become extinct.

WHAT ARE PLANTS?

Plants are life forms which include: trees, flowers, herbs, shrubs, grasses, vines, ferns, mosses and green algae.

GARDEN PLANTS

Garden plants include trees, bushes and flowers. People work in the garden to look after and nurture their plants. Fruit, vegetables and herbs can also be grown in the garden.

BOTANY

Botany is the scientific study of plant life. People who study botany are called Botanists.

OUTDOOR PLANTS

There are many trees, bushes and flowers in outdoor spaces in our towns and cities.

WHY ARE PLANTS IMPORTANT?

Plants provide food for people and animals.

Plants release oxygen which helps us breathe.

Animals use plants for shelter.

Plant roots help stop soil erosion.

Plants are used to make objects.

Plants are used for medicine.

Plants are used for decoration and enjoyment



These are some plants that are grown for food
in farms and gardens in the UK.

CROPS	FRUIT		VEGETABLES		HERBS	
barley	apples	rhubarb	potatoes	onions	parsley	Basil
oats	strawberries		cabbage	lettuce	chives	mint
wheat	raspberries		Turnips	turnip	tarragon	dill
rapeseed	pears	cherries	mushrooms	sprouts	thyme	sage

SEASONS
Different plants grow during different seasons. Most growth happens during spring and summer when sunlight and warmth is at its peak. In autumn many plants die and deciduous trees lose their leaves.

DID YOU KNOW?
You get conkers from a horse chestnut tree.

DID YOU KNOW?
A buddleia (budd-lee-a) is also known as a butterfly bush because it is very attractive to butterflies!



THE TABLES BELOW SHOW SOME PLANTS THAT GROW IN THE UK.

TREES			FLOWERS		SHRUBS	
alder	beech	rowan	daffodil	daisy	box	gorse
oak	willow	birch	rose	freesia	dogwood	privet
willow	hawthorne		lily	crocus	hydrangea	holly
ash	sycamore		sunflower	iris	buddleia	yew
pine	horse chestnut		gerbera	tulip	gardenia	cornus



What are Plants?

ACTIVITY 1

Can you complete this plants worksheet?

Write down whether these plants are a **FRUIT**, **VEGETABLE** or **HERB**

potato	
raspberry	
apple	
parsley	
turnip	
thyme	
cabbage	
cherry	
basil	
carrot	

Read each sentence and write **TRUE** or **FALSE** in the box.

Botany is the scientific study of plant life.	
People never grow food in their gardens.	
Crops grown in the UK include: barley, oats and wheat.	
Rose, lily and tulip are all flowers grown in the UK.	
Alder, birch and pine are all flowers found in the UK.	
You get conkers from a horse chestnut tree.	

SEASONS		MISSING WORDS	
Different plants ____ during different _____. Most _____ happens during spring and _____ when sunlight and _____ is at its peak. In _____ many _____ die and deciduous trees lose their _____.		seasons	summer
		warmth	leaves
		plants	grow
		growth	autumn



What are Plants?

ACTIVITY 1 - ANSWERS

Can you complete this plants worksheet?

Write down whether these plants are a **FRUIT**, **VEGETABLE** or **HERB**

potato	VEGETABLE
raspberry	FRUIT
apple	FRUIT
parsley	HERB
turnip	VEGETABLE
thyme	HERB
cabbage	VEGETABLE
cherry	FRUIT
basil	HERB
carrot	VEGETABLE

Read each sentence and write **TRUE** or **FALSE** in the box.

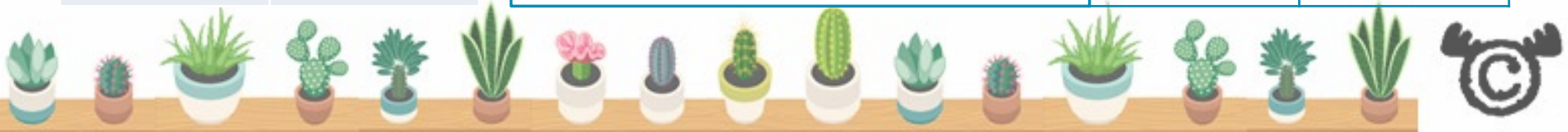
Botany is the scientific study of plant life.	TRUE
People never grow food in their gardens.	FALSE
Crops grown in the UK include: barley, oats and wheat.	TRUE
Rose, lily and tulip are all flowers grown in the UK.	TRUE
Alder, birch and pine are all flowers found in the UK.	FALSE
You get conkers from a horse chestnut tree.	TRUE

SEASONS

Different plants **grow** during different **seasons**. Most **growth** happens during spring and **summer** when sunlight and **warmth** is at its peak. In **autumn** many **plants** die and deciduous trees lose their **leaves**.

MISSING WORDS

seasons	summer
warmth	leaves
plants	grow
growth	autumn



What are Plants?

ACTIVITY 2

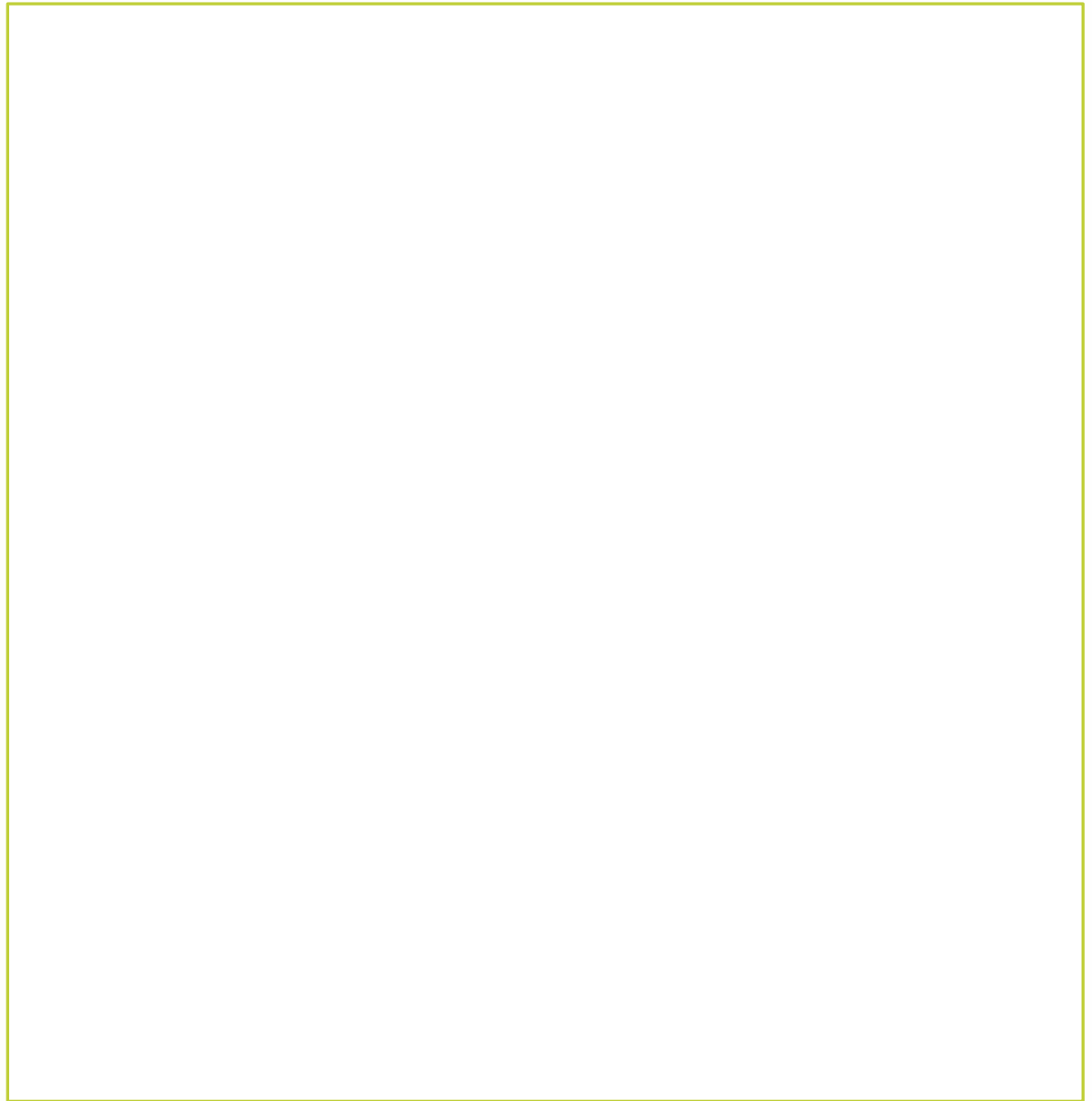
Can you design a floorplan for a garden?

Imagine you are moving into a new house and it's your job to design the garden.

Include the items below in your design.

patio	shed	grass
flower beds		trees
shrubs	vegetable patch	

Share your design with the class.



What are Plants?

ACTIVITY 3

Can you investigate these plants?

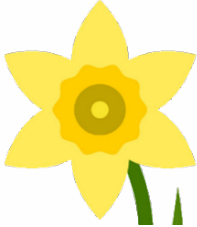
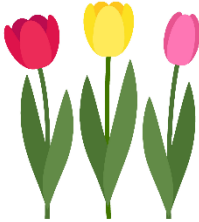

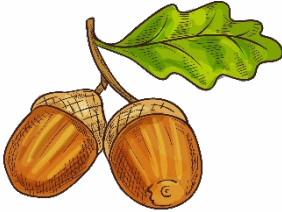
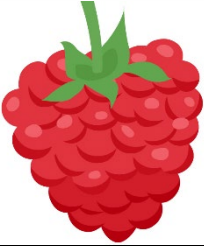



Working with a partner, use Google Images to find pictures of each plant or plant part.

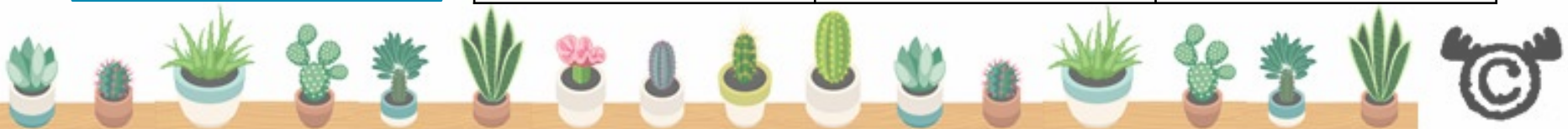
Write the correct name under the each picture.

Draw any plant you like in the empty box.

Report your findings to the class.

ACORN	DAFFODIL	CABBAGE	SUNFLOWER
CACTUS	OATS	TULIP	RASPBERRY



ACTIVITY HINTS AND TIPS

ACTIVITY 1

Reading

CO-OPERATIVE LEARNING

The children could work in pairs or as a class to complete this task and encourage discussion about the topic.

EXTENSION TASK

The children could make their own true or false statements to test their classmates.

ACTIVITY 2

Art

CO-OPERATIVE LEARNING

The children could work in partners for this task.

EXTENSION TASK

The children could use the internet to find pictures of gardens.

The children could add other items to their garden e.g. pond, playset etc.

The children could add colour to their garden plan.

The children could select specific plants for their garden.

ACTIVITY 3

Research

CO-OPERATIVE LEARNING

The children could complete this task in pairs or groups.

EXTENSION TASK

The children could use Google Images to find pictures of the plants mentioned in the Teacher's Notes.

The children could attempt to identify any plants they see outside.

The children could talk about plants in their home or plants they enjoy eating.



Assessment 1

By completing these tasks your teacher can see how much you have learned about plants. You can look back in your jotter to help you answer the questions.

Answer these questions in sentences.

1. A buddleia is also known as a bumblebee bush. TRUE or FALSE?
2. What type of plant are ash, oak and elm?
3. Name two vegetables that are grown in the UK.
4. A scientist who studies plants is called a botanist. TRUE or FALSE?
5. Are plants grown on farms usually for FOOD or for DECORATION?
6. Write down one reason why plants are important to us.
7. What type of plant are gorse, holly and yew?
8. In which season do some trees lose their leaves?
9. Name two herbs.
10. Name two fruits that are grown in the UK.

Write a paragraph describing a meal you eat that contains plants.

Draw a picture of your favourite flower.



Assessment 1 - ANSWERS

Answer these questions in sentences.

1. A buddleia is also known as a bumblebee bush. TRUE or FALSE?
2. What type of plant are ash, oak and elm?
3. Name two vegetables that are grown in the UK.
4. A scientist who studies plants is called a botanist. TRUE or FALSE?
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7. What type of plant are gorse, holly and yew?
8. In which season do some trees lose their leaves?
9. Name two herbs.
10. Name two fruits that are grown in the UK.

1. FALSE, it is also known as a butterfly bush.
2. Trees.
3. See Teacher's Notes.
4. TRUE.
5. FOOD.
6. See Teacher's Notes.
7. Shrubs.
8. Autumn.
9. See Teacher's Notes.
10. See Teacher's Notes.



Extension Tasks 1

These are internet based tasks for early finishers.
They can be done on an iPad or a computer.

Use Google Images to find pictures of these plants. Write down whether they are a **TREE**, **FLOWER** or **VEGETABLE**.

horse chestnut

asparagus

hornbeam

broad bean

crocus

silver birch

marrow

freesia

monkey puzzle

gerbera

FIND THE UNDERLINED WORDS IN THE WORD SEARCH

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

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