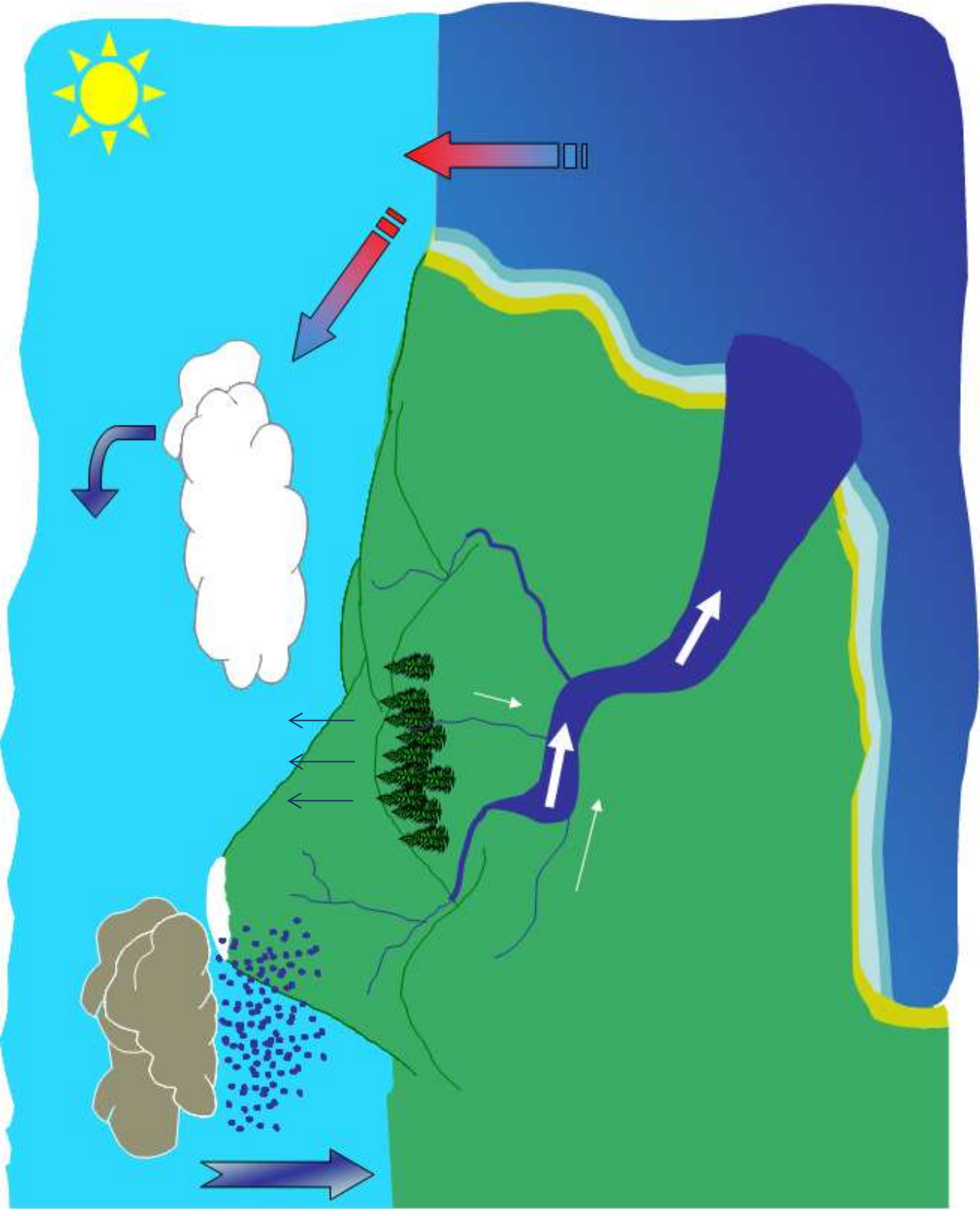


Water Cycle

Earth is the only planet in our solar system which has water. The amount of water on earth is constant, it never changes. The water is used over and over again; this process of re-cycling is known as the "water cycle" or the "hydrological cycle"

Opposite you can see a picture but the labels are missing

You can find the missing words on the next page. Carefully using scissors cut out the pieces and stick them in the correct place.



Missing Pieces

Using scissors carefully cut out the pieces below and stick them in their correct place in the water cycle diagram

RUN OFF

Water runs over the soil, flows downhill due to gravity into valleys to form tiny rivulets

PRECIPITATION

The water droplets eventually become so heavy that they fall as rain, hail or snow.

EVAPORATION

The sun heats the air above the surface of the ocean causing water to evaporate

The river enters the sea at its estuary

Streams flow downstream and meet other burns where they confluence. The river becomes deeper and wider

CONDENSATION

Warm moist air rises and begins to cool. Water droplets are formed into clouds

As the water droplets collide and get bigger the clouds become darker as they contain more water

TRANSPIRATION

Water is released into the air directly from the leaves of plants and trees

The Physical River

Find all the different names that are related to rivers and where they come from. They are mixed up in the word search and can be hidden in every direction.

MEANDER

GLACIER

ISLANDS

MOUNTAINS

OX-BOW

LAKE

FLOOD PLAIN

RIVERBANK

PLUNGEPOOL

SOURCE

ESTUARY

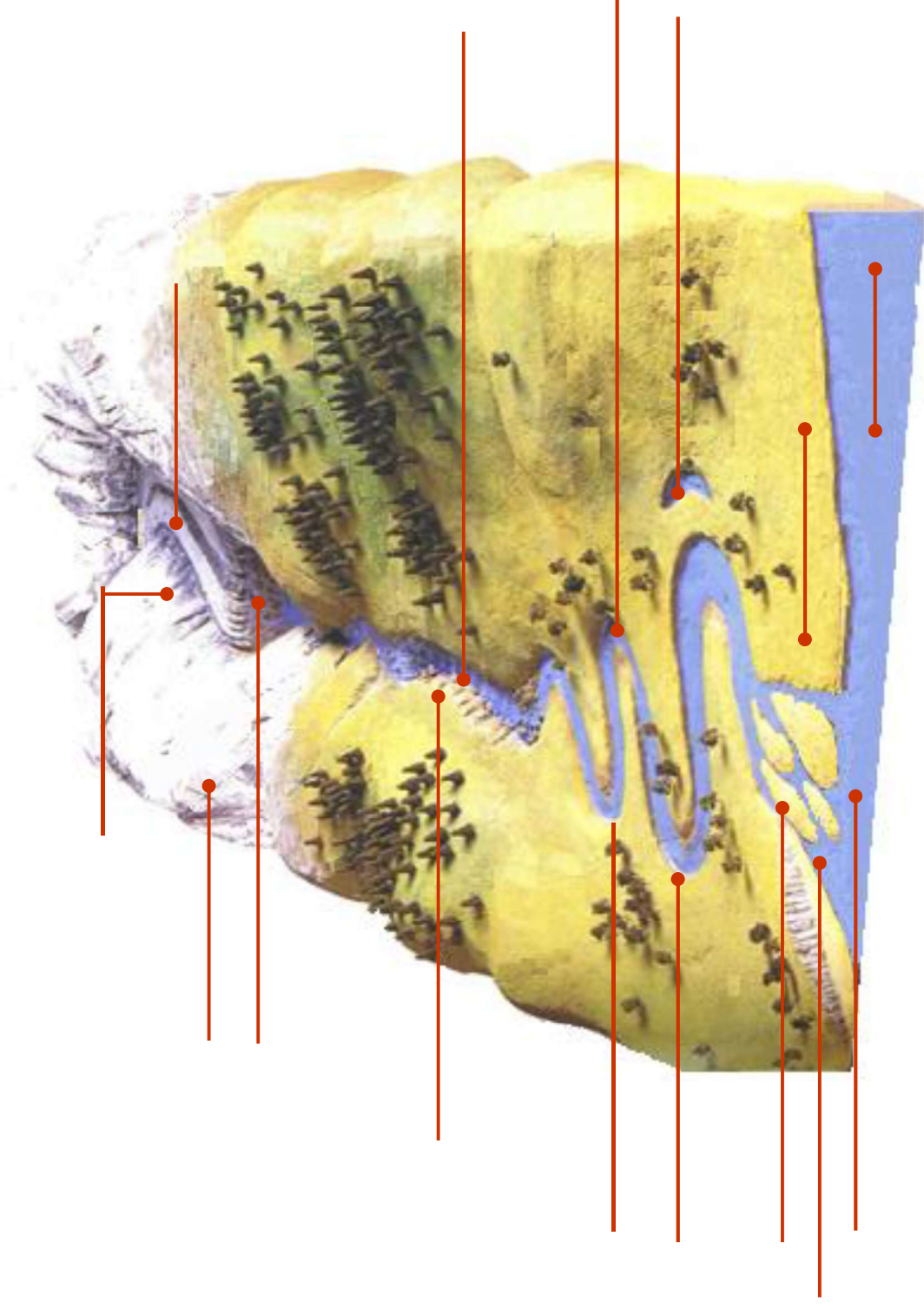
WATERFALL

SEA

SNOW

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

Next - match the words in the word search to the diagram. If you do not know what some of the words mean look them up in books and on the internet to help you. Not all the labels are in the word search.

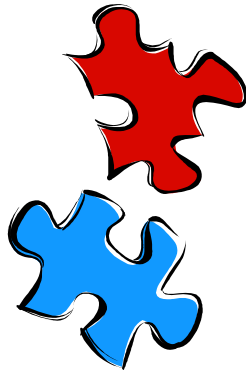


Design your own game or book



Use all the information you have learned about Trout and their life cycle create a Game or a Book. Share with pupils from other classes to help yourself and others learn and remember the trout's story.

I



Things to think about



Game

How many people can play?

What's the aim of the game?

What props do you need?

What's the name of the game?

What are the rules?

What do you learn?

Are there any special tricks or moves?

What age group is it aimed at?

to

Book

Remember: Start, Middle and End

Are there pictures in the book?

Is it a comic?

What age group is it aimed at?

Who's the main character?

What tense is it in?

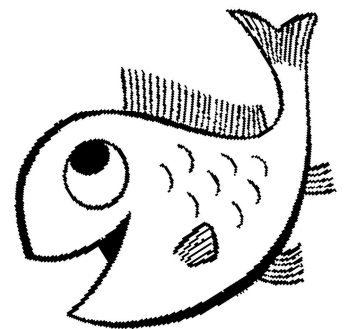
Is it fact or fiction?

What is the title of the book?

Newspaper Editor



With all your ideas create a newspaper article about the problems that the young fish have to overcome. Look at newspapers to get ideas about layout and what is essential for a good newspaper article.



All the water in the World!



There is 1,386,000,000 km³ (1,386 million) of water in the world. But as you have learned from the water cycle this can be found in several different forms and locations.

Below is a table that gives percentages and volumes of water and where that water is found in the world.

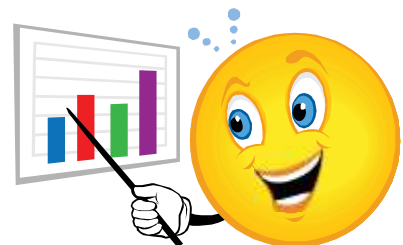
Can you complete the table so each location has a volume and a percentage?

Location	Percentage of water %	Volume of water Km ³
Oceans		1,337,490,000
Atmosphere	0.002%	
Rivers		55,440
Ice	1.75%	
Lochs/Lakes		194,040
Underground water	1.73%	
Total		

Using graph paper or a computer can you make a graph to show the different amounts of water in the different locations?

Things to think about:-

- What type of graph?
- Colours?
- Labels?
- Title?
- Are you using percentages or the volume of water?



All this water and not a drop to drink!

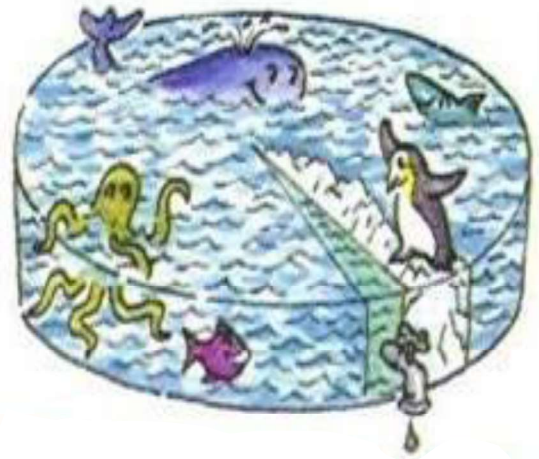
The water on earth can be split into salty seawater and fresh water.

Humans, animals and plants can only drink freshwater.

But only 2.6% of all the water on earth is fresh water.

1.82% of this is locked away in ice sheets and glaciers.

This leaves only 0.78% available in rivers, lochs, and underground which is safe for us to drink.



If there is $1,386,000,000\text{km}^3$ of water on the earth how much is safe to drink?

Work out your answer here

How many ways do you use water?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____