



8-9 YEARS | WEEK 02

Science - Environment

1. Migration - Bird sanctuaries

2. Hibernation - Hibernating animals

3. Migration & Hibernation - Facts

4. Migration & Hibernation - Activity

5. Migration & Hibernation - Drawing

6. Food chain - Cut and paste

7. Common birds

8. Homes of birds

9. USA - Environment

10. Russia - Environment

11. Russia - Environment

12. Waste segregation

13. Alternative energy

14. Earth

15. Recyclables

16. Reusable craft

17. Water cycle - Fill and complete

18. Soil & natural resources - Fill & complete

19. Water - Fill in the blanks

20. Project - Nature walk & patterns

S: Migration - Bird sanctuaries



Winter is the high time of tourism in India not only for festivals and road trips but also for bird watching. India receives the highest number of foreign tourists and migratory birds in winter season spanning from October to March. But, exotic birds outnumber foreign tourist arrivals throughout the season. Match the bird sanctuary with their state.

Sanctuary name	State
1 Nal Sarovar Bird Sanctuary	a Maharashtra
2 Chilka Lake Bird Sanctuary	b Goa
3 Little Rann of Kutch	c Odisha
4 Ranganathittu Bird Sanctuary	d Gujarat
5 Karnala Bird Sanctuary	e Andhra Pradesh
6 Salim Ali Bird Sanctuary	f Karnataka
7 Nelapattu Bird Sanctuary	g Rajasthan
8 Bharatpur Bird Sanctuary	h Gujarat

Answer Key: 1.d; 2.c; 3.h; 4.f; 5.a; 6.b; 7.e; 8.g

S: Hibernation - Hibernating animals



Hibernation may last days, weeks, or months—depending on the species, ambient temperature, time of year, and the individual's body-condition. Some of the hibernating facts are given below. Mark them as True or False.

1 Animals can survive without oxygen while hibernating.

☐

2 Animals that are true hibernators wake up every few weeks to pass waste and eat.

☐

3 Arctic Squirrels can lower their body temperature to below freezing during hibernation.

☐

4 Hibernation do not occur during the summer months.

☐

5 Animals don't dream during hibernation.

☐

6 Domesticated goldfish do not hibernate.

☐

7 Hibernaculum is Latin for "winter quarters" and refers to where an animal hibernates, such as a den or cave.

☐

8 Bears are not true hibernators because they can be woken up from slumber and only that their heart rate drops and metabolism is reduced.

☐

Answer Key: 1.T; 2.T; 3.T; 4.F; 5.T; 6.F; 7.T; 8.T

S: Migration & Hibernation - Facts



Hibernation and migration are adaptations for animals to survive winter months when food is not available. The main reason an animal hibernates or migrates is due to the lack of food, which occurs during the winter months due to the cold weather. Cut the correct images of the animals and paste them next to the details given.

- 1 Only bird species known to hibernate.



- 2 Travel to find winter food, to give birth, and to rear their calves.



- 3 Return to freshwater to spawn and lay eggs.



Humpback whale



Turtle



Common poorwill



Salmon



Bats



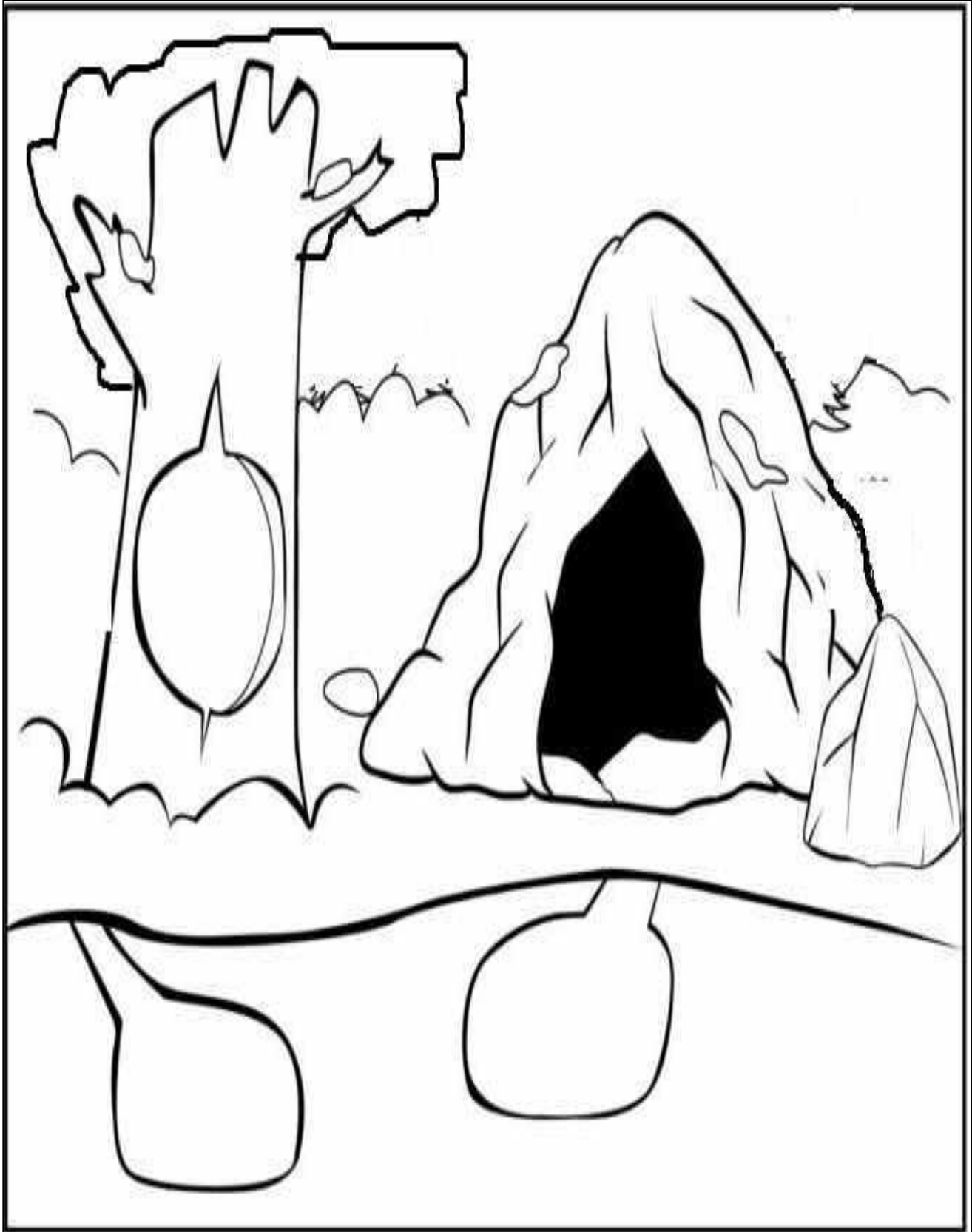
Blue whale

Answer Key: 1. Common poorwill ; 2. Humpback whale ; 3. Salmon

S: Migration & Hibernation: Activity



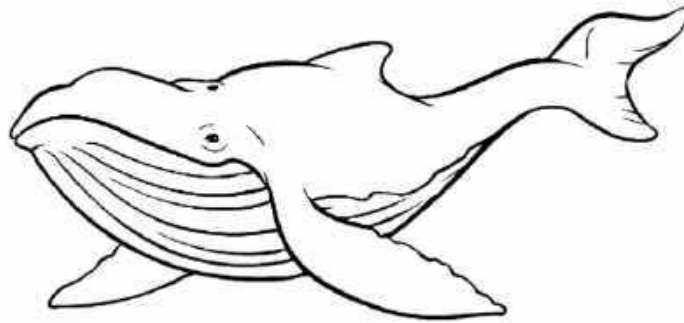
Animals hibernate in specific places which are suited to their physical condition. In the drawing given below draw the animals in their hibernating locations.



S: Migration & Hibernation - Drawing



Blue whales migrate to the Arctic and the Antarctic. Draw and colour a blue whale In the space provided.

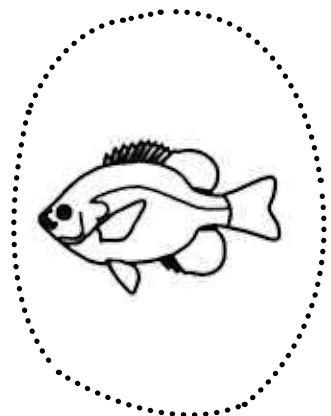
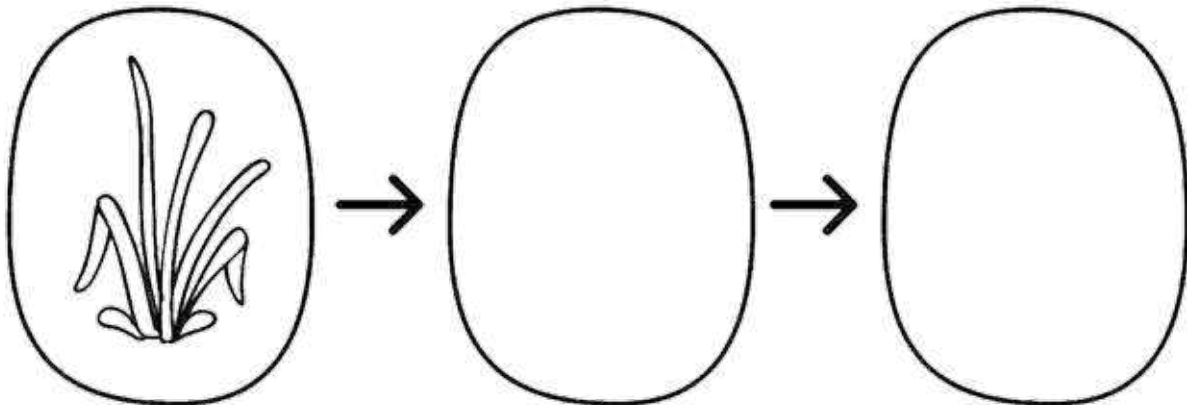
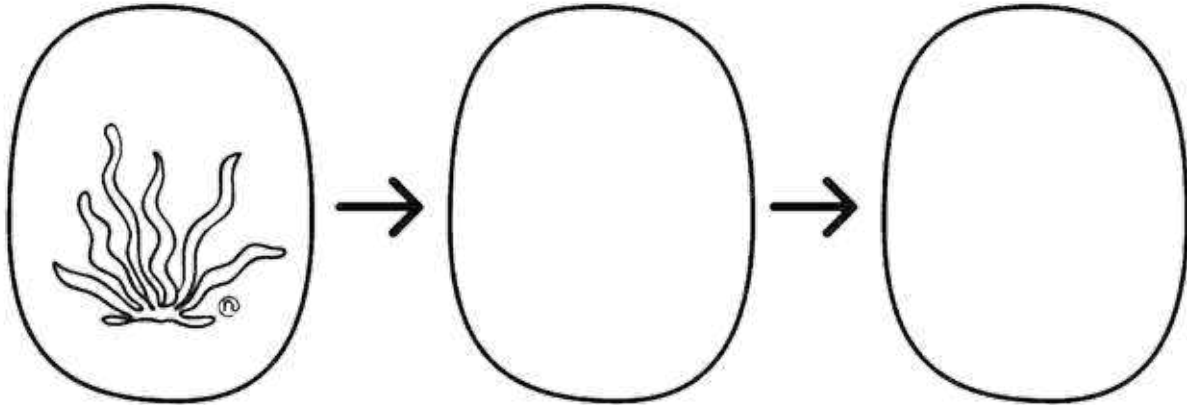




Cut and paste



Which animals fit the food chains below? Cut and paste to complete the food chains.





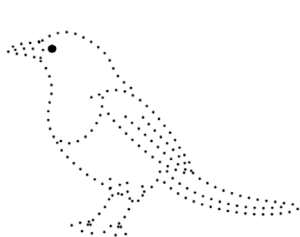
Common birds

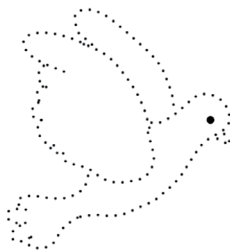


Trace the images of birds and colour them. Write the name of the bird in the space given below the picture.

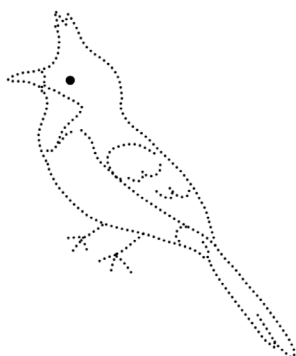
Help box:

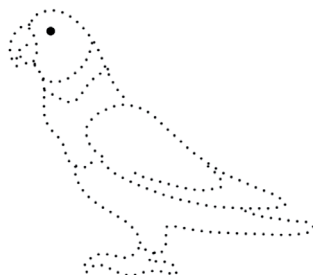
Peacock / Baya weaver bird / Barn owl / Chicken / Egret / Dove / Crow /
Kite / Sparrow / Parrot / Bulbul / Pigeon





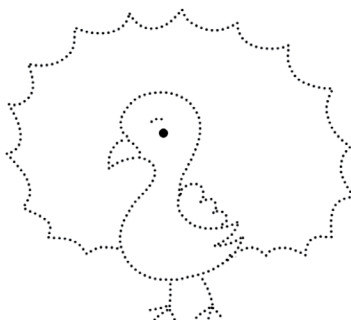




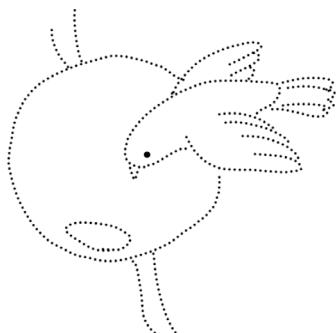




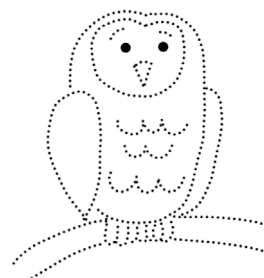
















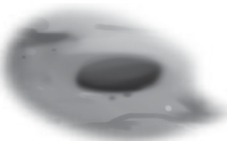
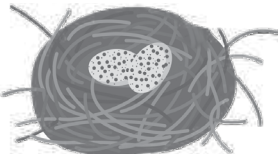




Homes of birds



Fill in the blank column on the left by matching the type of nests to their correct description and examples of birds.

Help box:

Burrow / Pendant / Floating / Cup / Mound / Scrape / Cavity / Platform

Nest type	Image	Description	Examples
		Elongated sacs which hang from branches.	Weaver birds Orioles Sunbirds
		Natural hollows in trees or created by birds in the trees.	Woodpecker Barbets Hornbills Parrots
		Burrows excavated by birds or other animals.	Sand martin Puffins Kingfishers
		Cup shaped nests made with grass, mud and twigs.	Hummingbird Robins Swallows Swifts
		Flat nests built to last for many years so that they can be re-used.	Eagles Egret Herons Raptors
		These are nests where the birds bury their eggs.	Flamingo Brush turkeys
		Made in gentle depressions in the soil.	Ostrich Penguin Falcons Pheasants
		Built on water.	Ducks Geese

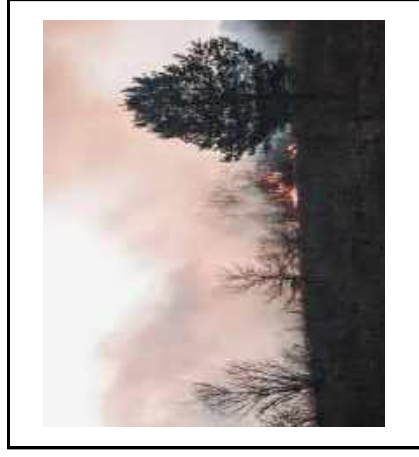
USA : Environment



It is really sad that in spite of being a developed country, the United States of America faces frequent natural disasters. Almost every state gets exposed to some natural hazards such as floods, earthquakes, landslides, volcanos, wildfires, tsunamis and tornadoes. Pictures of some natural disasters in USA are given below. Find out which seems to the most threatening for the human civilization.



Hurricane (2017)



Wildfire (2016)



Flood (2015)



Tornado (2014)

Russia: Environment



Let's see how much you know about Russia. Tick the right answer.

1. Which dance style is the most important cultural symbol of Russia?

- a. Classical Ballet
- b. Chechotka
- c. Karelian Dance

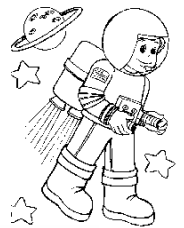


2. What is celebrated on 12 April in Russia?

- a. Cosmonautics Day
- b. Russia Day
- c. Easter

3. What was the name of the first woman in space?

- a. Maria Sharipova
- b. Valentina Tereshkova
- c. Sally Ride



4. Which is the oldest and the deepest lake in the world, located in Russia?

- a. Brosno
- b. Baikal
- c. Bustakh



5. How many active volcanos are found in Russia?

- a. nine
- b. fifteen
- c. twelve

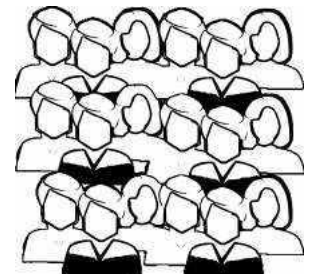


6. Which is a Russian traditional delicacy?

- a. Tofu
- b. Cobb salad
- c. Chicken foot soup

7. Where does Russia stand in world population?

- a. ninth
- b. seventh
- c. sixteenth



8. Which is the most polluted lake in the world, found in Russia?

- a. Lake Victoria
- b. Lake Erie
- c. Lake Karachay

Russia: Environment



Write the names of the Russians who invented the items in the pictures given below



Radio



Petrol Cracking



Television



Yoghurt



Helicopter



Electric powered railway wagons

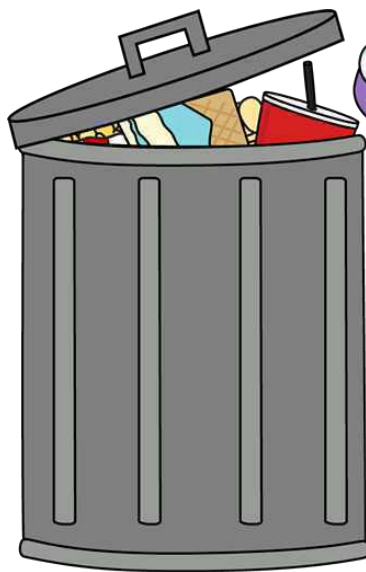


S: Environment - Waste segregation



Waste segregation is the activity and actions required to manage waste from inception to disposal. Circle all the words that can go into the garbage. Certain things can be recycled and should not be put into the garbage.

- apples milk carton wet wipes bubble wrap foil wrap
- used surgical mask car tyre flowers orange peel
- bottles envelopes candy wrapper plastic pen straws
- cell phones
- cans paper bags bike
- elephant
- spaghetti toilet paper
- batteries plastic bags leaves money
- bulbs ring plastic gloves box lemonade
- used tea bags banana peel sand food
- newspaper



Answer Key: used surgical mask, milk carton, wet wipes, bubble wrap, foil wrap, bottles, candy wrapper, plastic pen, straws, used tea bags, box, plastic gloves, bulbs, plastic bags, batteries, broken mug, cans, egg shells, toilet paper,

S: Environment - Alternative energy



Alternate energy refers to energy sources other than fossil fuels and includes all renewable and nuclear energy sources. Fill in the blanks and complete the statements.



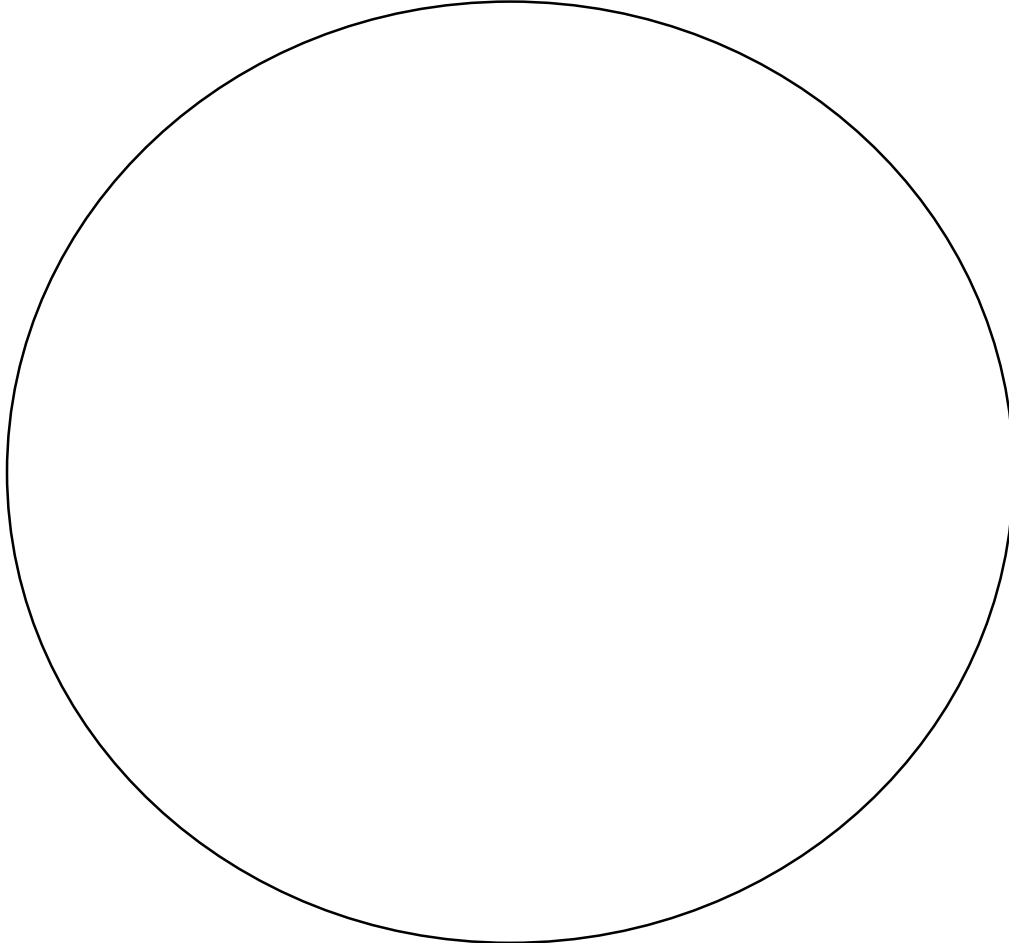
1. Hydroelectric power produces electricity using _____.
a. wind b. sunlight c. moving water d. dung
2. The careful use of a resource is _____.
a. recycling b. pollution c. depositing d. conservation
3. Energy from the sun is known as _____.
a. hydroelectric energy b. geothermal energy c. solar energy d. wind energy
4. Generators are used to produce electricity from all of these sources except _____.
a. solar b. wind c. hydroelectric d. nuclear
5. Wind, geothermal, and solar energy are all type of _____ energy resources.
a. cheap b. potential c. renewable d. chemical

Answer key: 1. moving water, 2. conservation, 3. solar energy, 4. solar, 5. renewable

S: Environment - Earth



Earth is the fifth-largest planet in the solar system. Earth has a diameter of roughly 8,000 miles and is round because gravity pulls matter into a ball.. Draw the earth the way you want to see it in the given circle and write 5 ways you can help the earth.



1

2

3

4

5



S: Environment - Recyclables



Recyclable means objects or things we can reuse and non-recyclable which cannot be reused. Find the hidden words from the word search and mark them as you find them. Think and write 5 recyclable and non-recyclable things in the column under the word search.

- | Vertical | Horizontal |
|--------------|------------|
| 1. recycle | 8. bin |
| 2. bottle | 9. glass |
| 3. plastic | |
| 4. burn | Diagonal |
| 5. container | 10. can |
| 6. battery | 11. energy |
| 7. paper | 12. save |

n	b	p	r	n	g	l	a	s	s	x
r	o	l	p	w	c	i	y	g	p	e
f	t	a	a	f	o	g	c	w	v	r
y	t	s	p	p	n	k	y	a	b	e
d	l	t	e	b	t	v	s	p	n	c
e	e	i	r	a	a	a	m	y	h	y
b	h	c	n	t	i	b	e	l	g	c
g	d	x	k	t	n	u	a	r	e	l
v	n	o	e	e	e	r	e	c	q	e
x	m	u	e	r	r	n	r	a	o	b
b	i	n	x	y	e	m	o	r	j	w

 Recyclable (Things we can recycle)	 Non-Recyclable (Things we can't recycle)



Answer Key: Recyclable - wood, newspaper, egg shells, cartons, can. Non-recyclable - needles, bubble rap, ceramic mug, wax boxes, battery

S: Environment - Reusable craft



It's important to recycle and reuse objects around us. Let us make a pencil organizer as a reusable craft by following the instructions given below.

To get started, gather the following material:

4 rolls of toilet paper tubes

Foam brush

1 cereal box

Super glue

3 sheets Tissue Paper

Scotch glue stick

Craft scissors

Scotch tape

PVA glue

a. Cut one side of the cereal box and draw a stand on it in any shape of your choice.

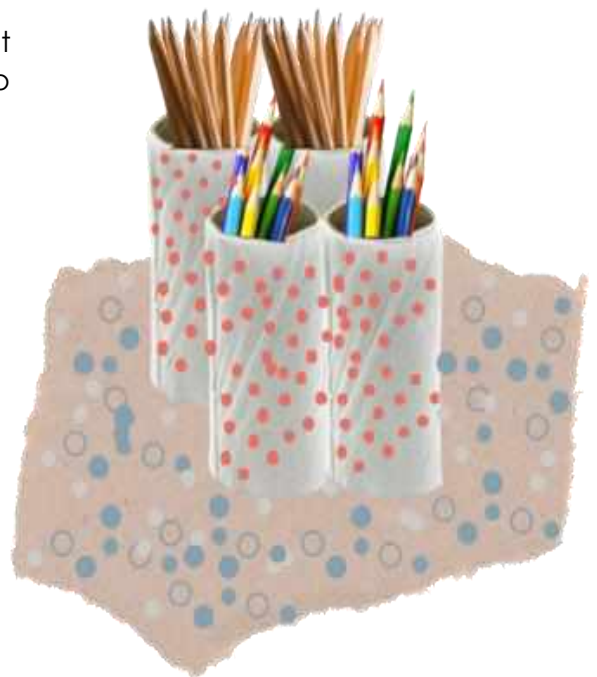
b. Glue down tissue paper to the blank side of the stand. Apply a thin layer of PVA glue and leave it to dry.

c. Cut strips of tissue paper a little wider than the toilet paper tubes and long enough to cover the tubes 3 to 4 times. Stick it to the tubes, applying more glue as you roll.

d. Leave to dry, then trim the edges.

e. Finish off the edges using tape.

f. Place the tubes on the stand and arrange as you like, then glue down with super glue.





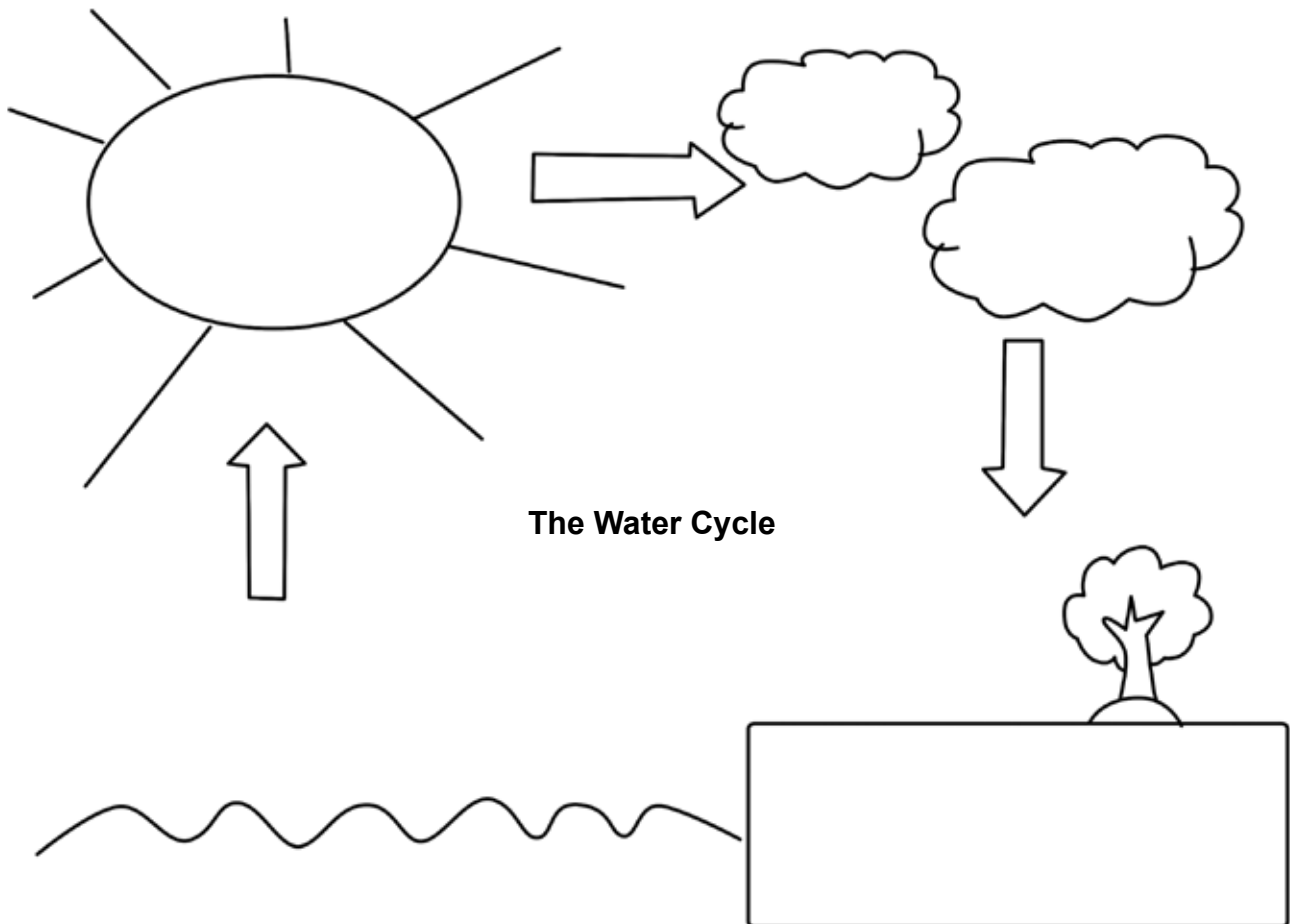
Fill and complete



Complete the water cycle by filling the correct word inside the picture. Use the help box.

HELP BOX:

sun, land, water, precipitation, cloud,
condensation, evaporation





Fill and complete



Fill in the blanks.

1. Things given to us by nature are called _____ resources.
2. Living things cannot live without _____.
3. The _____ is the only planet to have water.
4. _____ is the uppermost layer of the earth's crust.
5. A _____ treats sick or injured animals.
6. The Government of India has started 'Project Tiger' to protect the _____.

Name the following:

1. Three layers of the soil.
 - a. _____
 - b. _____
 - c. _____
2. Three natural resources.
 - a. _____
 - b. _____
 - c. _____



Fill in the blanks



Fill in the blanks.

Titbits: We all need to drink about 2 liters of water in a day to stay healthy.

1. Water is found in _____ forms.
2. When we _____ water vapor, it changes into water.
3. _____ is lighter than water.
4. _____ has no fixed shape.
5. _____ is the gaseous form of water.
6. Substances with a certain shape, volume and hardness are called _____.
7. _____ and _____ gases make water.
8. _____ cannot be seen.



PROJECT: NATURE WALK & PATTERNS

This activity is perfect to understand patterns & patterns are everywhere.

SUPPLIES: Setting Up the Project

- 1 . Items collected during nature walk.
- 2 . Scissor, A4 sheet, pencil, glue.
- 3 . Crayons, pencil colors, water colors.

Steps to follow:

- 1 . Go out for nature walk in your garden or balcony.
- 2 . Collect different plant leaves, sticks, small stones, dry leaves, dry flowers etc.
- 3 . Can you draw different patterns from these objects?

How to draw a real leaf pattern :

- 4.1. Keep the leaf below your A4 paper sheet.
- 4.2. Take any color crayon or pencil color.
- 4.3. Mark carefully on A4 sheet, where you have placed the leaf below the sheet.
- 4.4. Can you observe the magic?

How to draw the stone pattern:

- 5.1. Take different shades of water colors.
- 5.2. Take stone and dip one side of stone in desired water color.
- 5.3. Stamp it carefully on the paper.
- 6 . How many different patterns can you make with these objects?
- 7 . Name these patterns in terms of A-B-C.