



7-8 YEARS | WEEK 02

Science - Environment and Habitats

1. Earth - Planet report

2. USA - Wildlife

3. Russia - Wildlife

4. Match - Shelters with animals

5. Adaptations - Migration

6. Adaptations - Sorting

7. Adaptations - Reasons

8. Adaptations - Craft

9. Adaptations - Activity

10. Food chain - Meaning

11. Food chain - Sequence

12. Food chain - Process

13. Food chain - Animal food chain

14. Food chain - Finding a food chain

15. Recycling - What plastics become?

16. Recycling - Rules

17. Recycling - Segregation

18. Upcycling - Paper collage frame

19. Upcycling - Paper flower

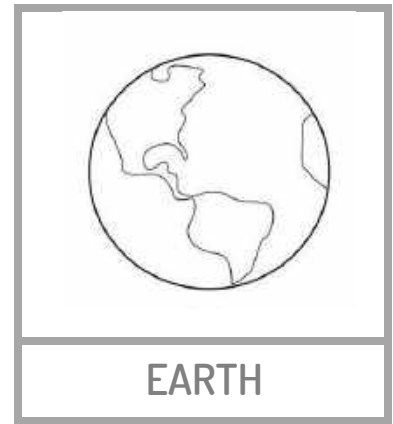
20. Identify and label - Layers of soil



EARTH - PLANET REPORT

Be an EXPLORER today and Be a RESEARCHER for tomorrow!

My planet is




My planet has...


My planet can...

My color

My connection with the sun



My connection with the moon

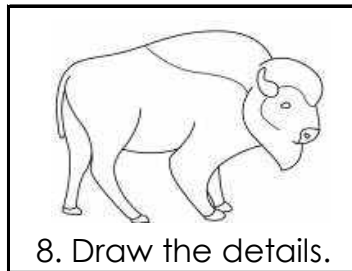
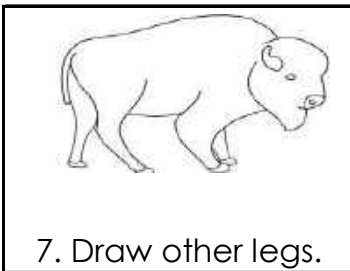
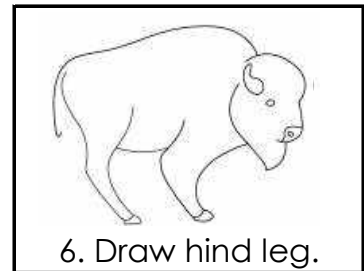
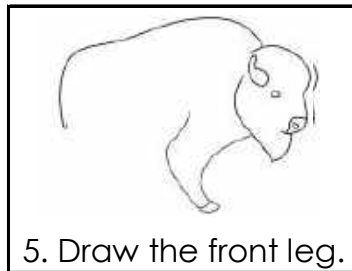
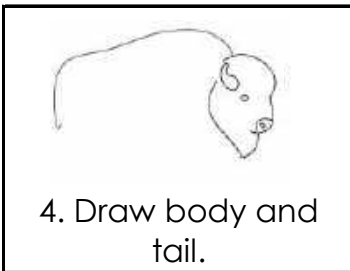
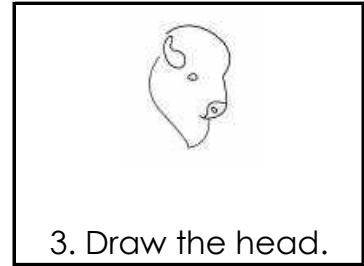
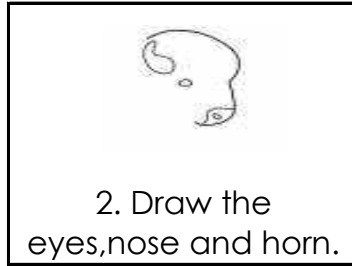
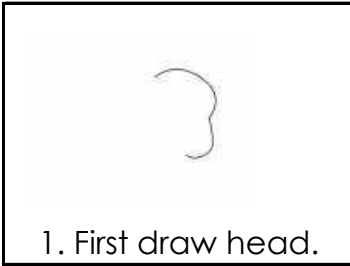


Interesting facts about my planet are

USA: Wildlife



Follow the instructions and draw the bison.



Practice it here



Russia: Wildlife



Within Russia you will find a variety of animals. Some of them are given below. Find them in the grid below.

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

Keywords			
brown bear	elk	wolf	Siberian tiger
reindeer	lemming	lynx	wolverine
arctic fox	seal	walrus	polar bear



Match



It is getting dark and Mini and her brother are helping their grandfather bring all the animals back to their appropriate shelters.

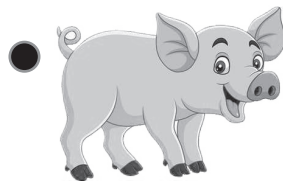
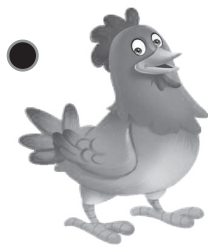
Help Mini and her brother take each animal to their correct shelters by drawing a line from the animal to its shelter. Here is the twist! Make sure that the lines don't touch each other.



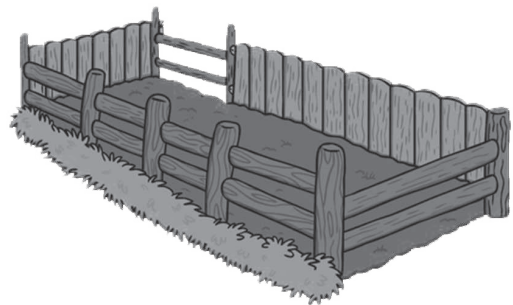
Shed or Barn



Stables



Coop



Sty

S: Adaptations - Migration



Migration is a seasonal movement of animals from one place to the other. It is typically a reaction to changes in temperature and availability of food. Complete the sentences below by filling up the blanks with the help of keywords.

Many animals, birds, fishes and insects _____ 1 _____ from one place to other



at some time in a year. This is called _____ 2 _____



Migration is a part of _____ 3 _____ of these

animals. Animals migrate for _____ 4 _____ reasons. They



migrate because the weather is too hot or _____ 5 _____ too wet or too dry

during certain times of year. Many animals migrate across _____ 6 _____

land or air.



life cycle

migrate

different

migration

water

too cold

Answer Key: 1. migrate 2. migration 3. life cycle 4. different 5. too cold 6. water

S: Adaptations - Sorting



Migration is a movement to and from a particular region of all or some of the animals. Migrating animals include many birds, insects, etc. Hibernation is a process of animals going into a deep sleep during the winter season. Sort the animals as migratory or hibernating animals. Write the numbers of animals that migrate in the yellow balloon box and the animals which hibernate in the red balloon box.

- | | | | | | | | | | |
|---|--|---|--|---|--|---|--|----|--|
| 1 |  | 2 |  | 3 |  | 4 |  | 5 |  |
| | Whale | | Butterfly | | Chipmunk | | Land snail | | Turtle |
| 6 |  | 7 |  | 8 |  | 9 |  | 10 |  |
| | Bat | | Zebra | | Dormouse | | Crane | | Dragonfly |

Animals that Migrate



Animals that Hibernate







Answer Key: Migrate- 1, 2, 5, 7, 9, 10 Hibernation- 3, 4, 6, 8

S: Adaptations - Reasons



Animals migrate for different reasons. Migration is a seasonal movement of animals from one habitat to another in search of food or better living conditions. Let us find some reasons for migration of some animals and birds. The first one is done for you.

Animals	Reasons to migrate
<p>1</p>  <p>Salmon</p>	<p>It starts its life in the river and migrates deep into the ocean and comes back after years to the river again to lay eggs.</p>
<p>2</p>  <p>Bar Tailed Godwit</p>	<p></p> <p></p> <p></p>
<p>3</p>  <p>Zebra</p>	<p></p> <p></p> <p></p>
<p>4</p>  <p>Bat</p>	<p></p> <p></p> <p></p>

Answer Key: 2. To avoid winters with short days, low food availability and low temperatures. 3. In search of drinking water and food. 4. In search of favorable conditions to hibernate.

S: Adaptations - Craft



Hibernation occurs when an animal becomes inactive during the short days of winter. They curl up in a safe place and stay there till winter ends. Today let us make an animal who goes into hibernation mode, with the help of a paper plate. So let us start this activity. Let us make a Hedgehog. Hedgehogs have prickly spines all over the body except the face, legs and bellies. By curling up into a tight ball, they hibernate during the winter season.

Materials required

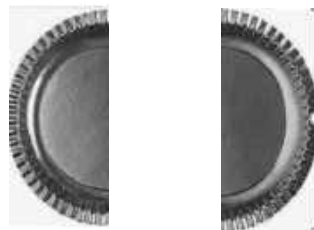
1 paper plate
Brown paper stripes
Light brown paint
Googly eyes
Black marker
Scissors and glue

Instructions

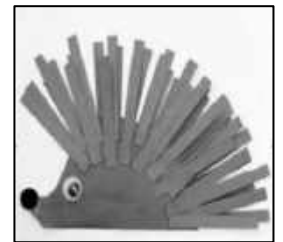
- 1 Paint the paper plate brown and let it dry.
- 2 Cut it in halves and glue the halves together.
- 3 Mark the head area. Apply glue to the remaining body area and start sticking brown paper stripes.
- 4 Stick googly eyes, draw a nose and a mouth.



Step 1



Step 2



Step 3

Stick the image of your Hedgehog here

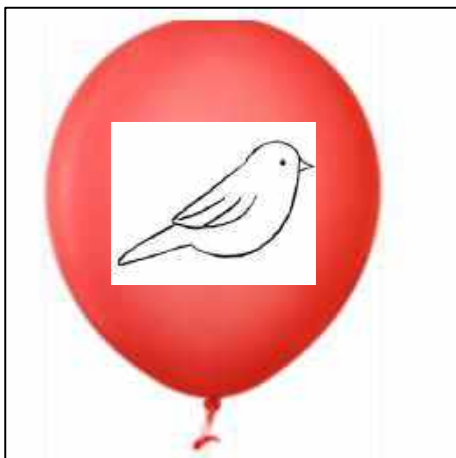
S: Adaptations - Activity



Every year millions of animals move from one place to another in search of food, water and favourable climatic conditions. This is called migration. Let us do a fun activity to understand this concept better. You can do this activity with your friends. Write your experience on the lines provided.

Materials

Blown up balloons with a bird drawn on them with a marker.



Instructions

- 1 The aim is to fly a bird(a balloon)to a new home by not letting it fall.
- 2 Ask your friends to form a line keeping some distance between them.
- 3 The first player hits the balloon first and passes it to the next player. Only one person can touch the balloon at a time.
- 4 Each player passes the balloon to the next player.
- 5 If the balloon drops down on the ground before it reaches the new home, start over again.
- 6 Try to reach your bird to a new home.

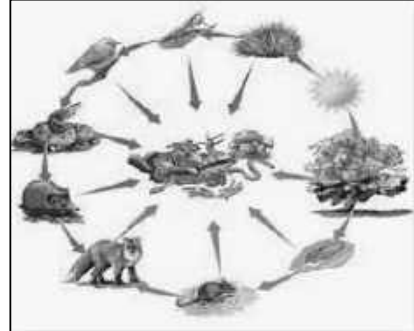
Did your bird reach the new home?

S: Food Chain - Meaning



We all need to eat food to live. Wild animals often eat other animals to survive. A food chain shows how each living thing gets food. Let us try to understand the food chain. Read the passage and identify the producers, consumers and decomposers in the food chain.

A food chain starts with the organism that makes its own food, such as plants. Organisms that eat other living organisms are called primary consumers, such as a squirrel. Primary consumers are eaten by secondary consumers, such as a hawk. Decomposers are bacteria that cause decay.



Plant



Hawk



Squirrel



Grasshopper

Answer Key: Plant-consumer, Squirrel - primary consumer, Hawk-Secondary consumer

S: Food chain - Sequence



A food chain explains which organism eats other organisms in the environment. The food chain is a linear sequence of organisms where nutrients and energy are transferred from one organism to the other. State whether the given statements about the food chain are true or false.

1 Food chains are very important for the survival of most species.

2 Life and eventually the food chain would not exist if the sun was not there.

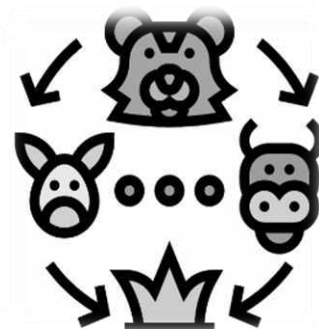
3 The length of the food chain remains same. It is not affected by any factor.

4 Al-Jahiz was a 9th century scientist who is responsible for introducing the concept of food chains.

5 A producer, which is able to produce its own food, is also called an autotroph.

6 Plants are not producers of energy.

7 When only one element is removed from the food chain it does not have any impact on the food chain.



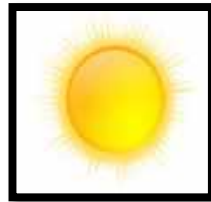
Answer Key: 1.T; 2.T; 3.F; 4.T; 5.T; 6.F; 7.F

S: Food chain - Process



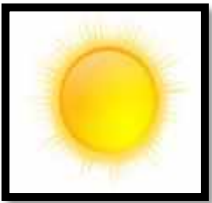
A food chain is a process that explains who eats whom. It starts from the producer (Plants) and ends up at the top carnivore. Given are the parts of the food chain. Write the correct sequence of the given food chains.

1



Sequence : _____ → _____ → _____ → _____

2



Sequence : _____ → _____ → _____ → _____

Answer Key : 1. Sun-corn-rat-cat ; 2. Sun-algae-jellyfish-shark

S: Food chain - Animal food chain



The food chain explains the feeding pattern or relationship between living organisms. Below given a simple animal food chain. Draw the relevant pictures in the given boxes.

Animal food chain :



Apple



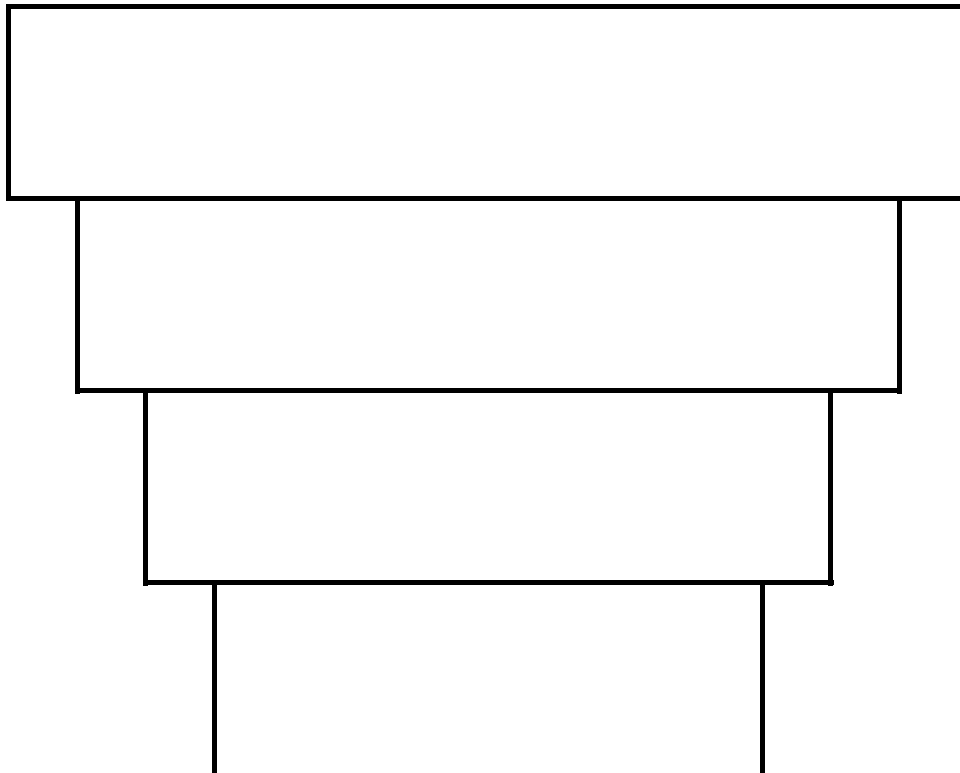
Worm



Hen



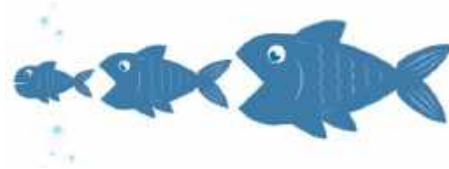
Snake



S: Food chain - Finding a food chain



There is not a single day where the food chain cycle is not occurring. Some are visible and some are not visible. Look around you and with the help of an adult find a food chain sequence in your day to day life, draw and write the same in the box given below.



Recycling : Plastics turn into...?



Do you know what plastics become after recycling? Well, have a look at these pictures. Match each of the plastic items with the thing it can be recycled into with the help of the pictures given below.

milk jugs A

picture frames

plastic bags B

playground equipment

bottle caps C

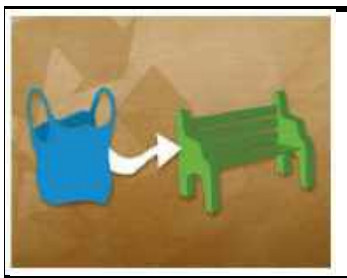
t-shirts

foam packaging D

brooms

bottles E

park benches



Recycling: Rules



Let us find out items that can be recycled with the help of the pictures given below. Mark a right tick against the things that can be recycled and cross out against those that cannot be recycled.

food plates

drinking cups

pizza cartons

paper

metal boxes

plastic bottles

food packs

egg cartons

rigid bottles

cardboard

glass bottles

plastic bags

Recyclable



Non-recyclable



Recycling : Segregation



Do you segregate your waste at your home? With the help of the pictures list out at least 3 items that can be added to each dustbin.



E-Waste

Plastic

Metal

Glass

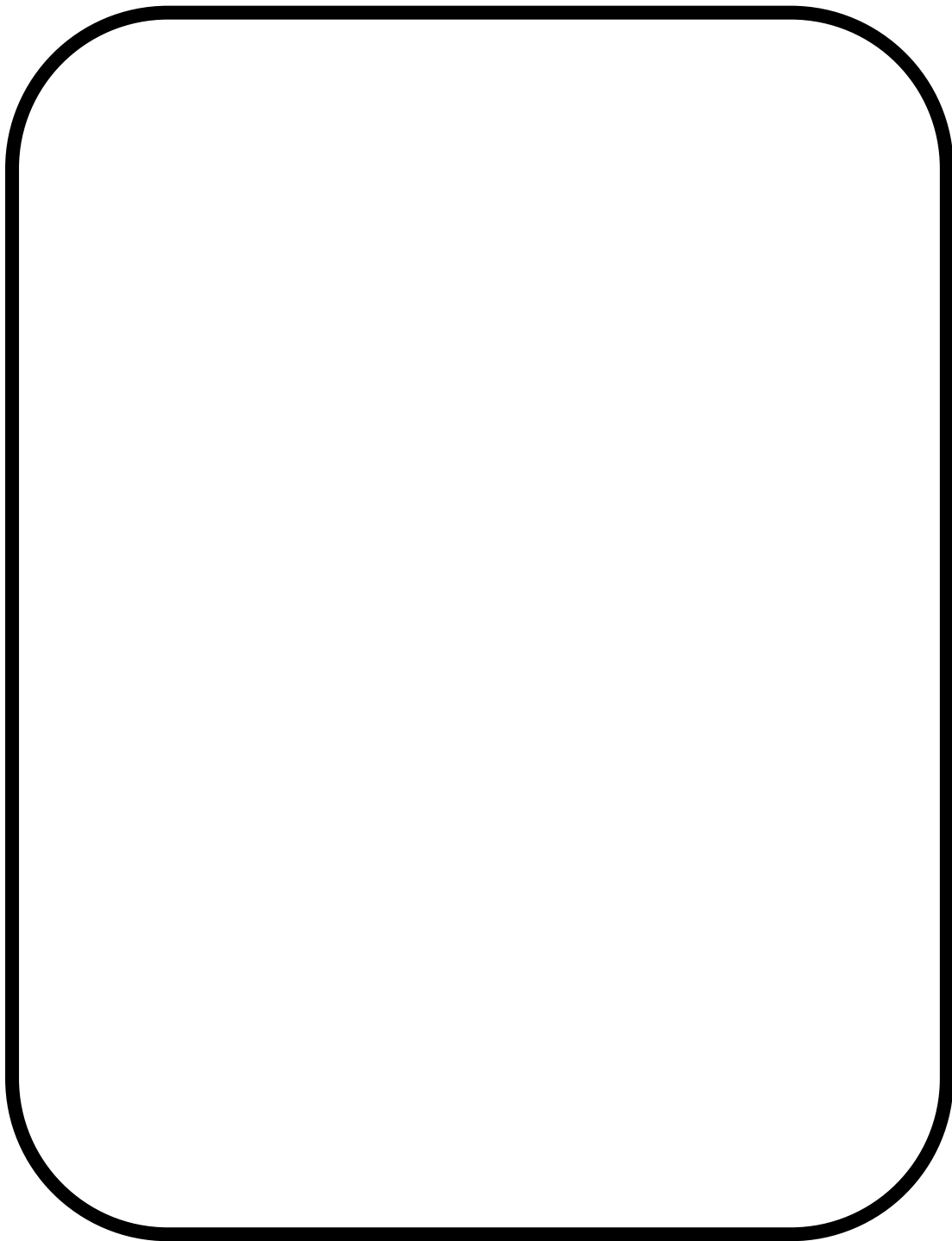
Paper

Organic

Upcycling: Paper collage frame



Get creative! Here is a collage of art for you. Collect a newspaper and cut out all the pictures printed in it. Glue as many pictures as possible in random order inside the frame provided below. Make sure to fill up all the space available in the frame. And your newspaper collage frame is ready!

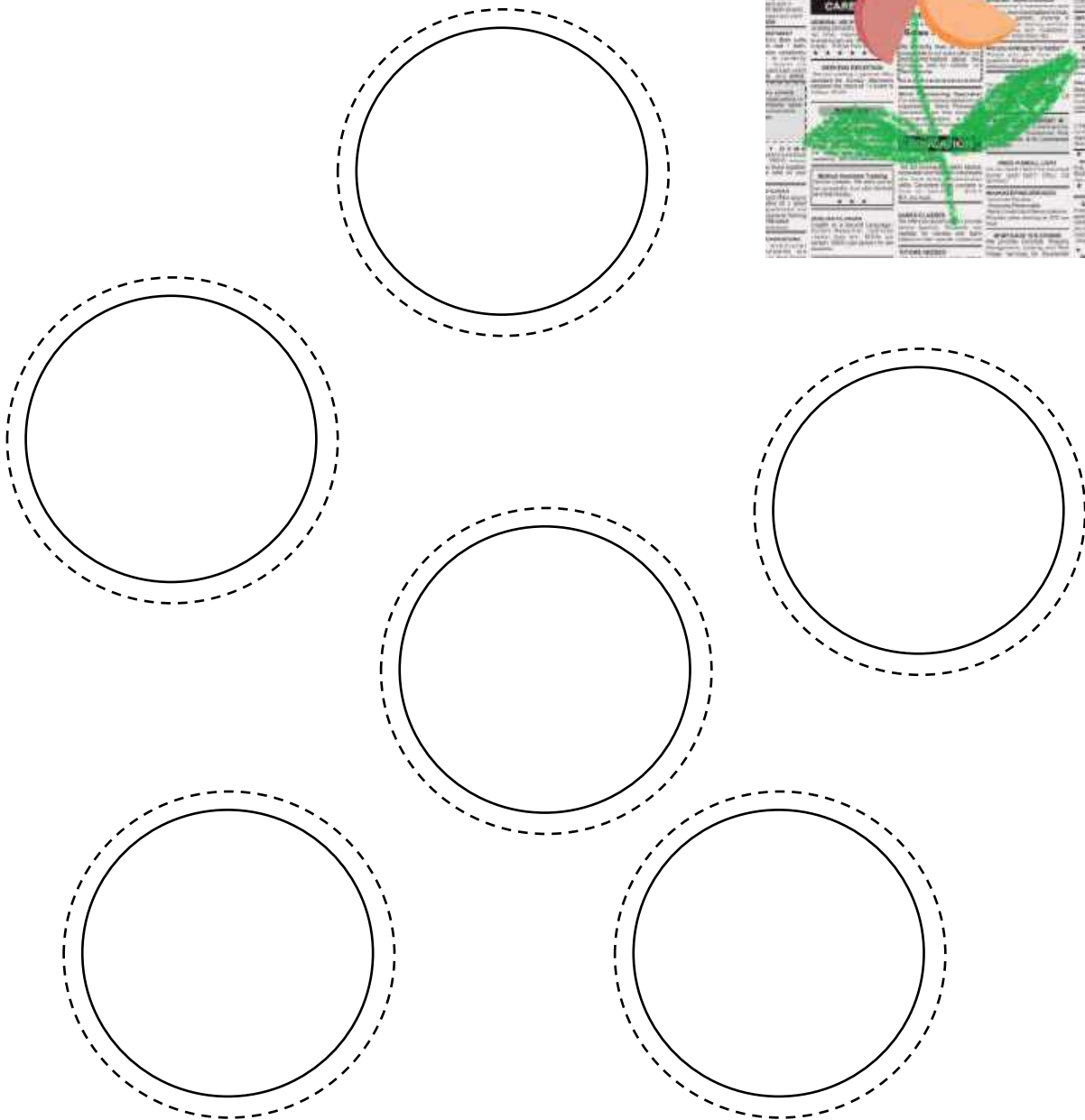


Upcycling: Paper flower



Let's upcycle all those used and discarded newspapers and magazines into something we can use. Follow the instructions below to make lovely paper flowers.

- 1 Cut out these 6 circles. You can use this template or cut circles from old invitations or coloured papers.
- 2 Colour them. And fold each into a semi-circle.
- 4 Place some glue on one side of your semi-circle and stick it on a sheet of newspaper like shown in the picture.
- 5 Draw a stem and leaves with crayons.
- 6 Your recycled art work is now ready to frame!!





Identify and label



Nature is our friend. Label the different layers of soil.

Help box:

humus, parent material, topsoil, bedrock, subsoil

1.

2.

3.

4.

5.

