

YOUNG SCIENTIST ACTIVITY BOOK

CLASS - I

Sample Pages



EDUHEAL FOUNDATION
• LEARNING FOR LIFE •

DISCOVER • INVENT • EXPERIMENT • EXPLORE

CLASS - I

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SYLLABUS GUIDELINES

1. About Plants

What are their types, how do they grow, what they give us. How they are useful to us. What are major parts of plants, seed, flower, leaves.

2. About Animals

World of animals, types of animals, what they eat, where they live, what are their groups called, what are the names of their home, how they grow.

3. Air

What is Air, why it is necessary, fun with air, what can we do with air.

4. Water

Why we need water. What are the work where we use water. Forms of water.

5. Weather

Day and night, Sunny day, Cold day, Rainy day, Summer, Monsoon.

6. Sky & Space

General idea about Sun, Moon, Stars. Indian people at moon and space.

7. Our needs & habits

What we need to keep ourselves healthy : cleanliness, Good food, exercise, walk, clothing etc. What good habits we should follow.

8. Safety First

Precautions to take while on Roads, when play outdoor games, when in home.



Experiment : Air is There

It is here and it is there.

It is invisible, but it is everywhere.

Can you name what it is ?

Yes you guessed correctly. It is **air**, you can make it do some interesting things! Now lets do this experiment and have fun with air.

You Will Need

- ☺ Empty bottle- You can use a Frooti or Pepsi bottle!
- ☺ Deflated balloon- One that is not filled with air.



What You Will Do :

1. Show the empty bottle to a friend and tell him that although the bottle may look empty, you can prove that it's actually full.
2. Then put the deflated balloon into the bottle pulling the open end of the balloon over the mouth of the bottle.
3. Now ask your friend to blow up the balloon while it's inside the bottle? Can he do that? No way, he can't !



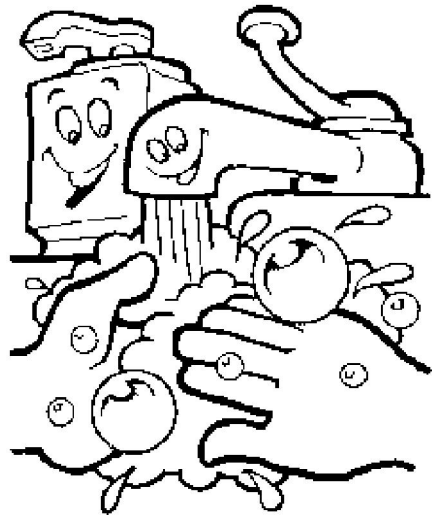
Do You Know Why ?

No matter how hard your friend blows, he or she won't be able to blow up the balloon while it is inside the bottle. This is because the bottle is already completely full—of air. Whatever the thing can be, whether it is a bottle, cup, glass, your toys, all are filled with air. Even though we cannot see air it is present everywhere.

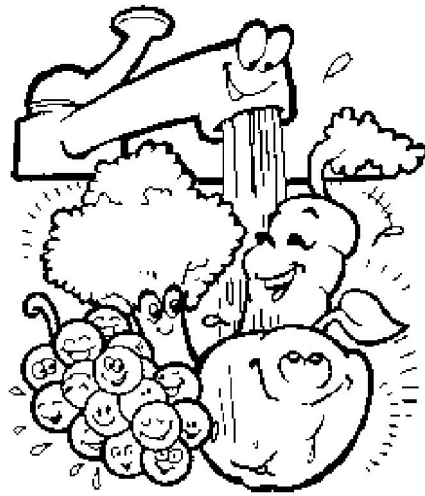


Safety Habits

Colour the following figures and learn the poem :



Wash, -wash, -wash, -your hands
With soap - and water, too



Rinse-your fruits-and vegetables
and make- them clean - for you



Put food-in the-refrigerator
Do - it right - away



Keep counters clean - where
food - is prepared
And chase- those germs- away



Interactive Activity: Recognise Me - Who am I?

Carefully cut out the parts of the two animals below. Glue them together on another sheet of paper. What animals did you find?

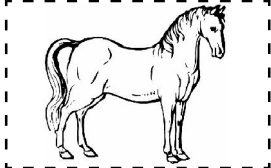
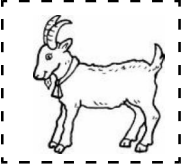
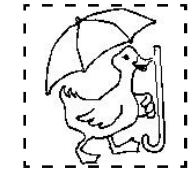
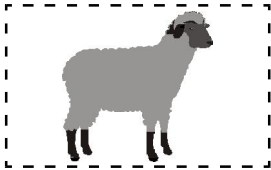
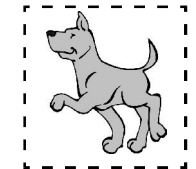
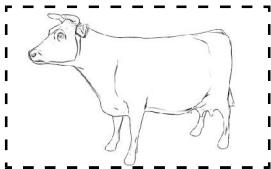
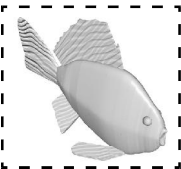
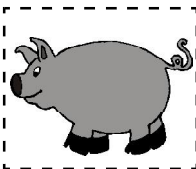


- Animals are :
1. _____ 2. _____
- Where do they live? (a) Water (b) Air (c) Land.

Animal Search

The name of the following animals are hidden in this box. Find out where ?

U	P	M	O	U	S	E	T
A	I	S	S	G	O	A	T
B	G	D	U	C	K	T	K
I	I	S	H	E	E	P	C
R	M	H	O	R	S	E	A
D	W	U	F	I	S	H	T
C	H	I	C	K	E	N	X
C	O	W	N	D	O	G	E



Why Should We Wash Our Hands?

Germs spread quite easily from person to person; not only when they cough or sneeze, but also by passing them from hand to hand. If your hand is infected, you can spread the germs when you touch your eye, mouth or nose, as those are the main routes by which germs get into your body.



Join the numbers to know what the person is offering.

To see how cold and flu germs can spread, try this experiment with your classmates, or with a group of your family members.

You will need:

☺ Water and soap

☺ A packet of glitter

How to do it:

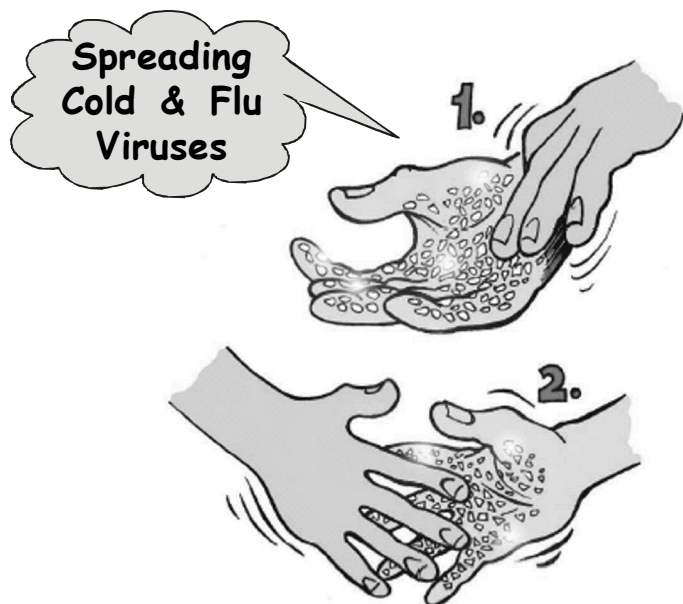
1. Ask everyone to wash their hands. Then you know that they are all clean to begin with.

2. Pour some glitter into one person's right hand, and ask them to use their left hand to spread it all over their right hand.
3. That person should now shake hands with three other people. Always use right hands to shake.
4. Each of the three people should then shake hands with three more people.
5. Keep going until you run out of people.
6. Now, look at every person's right hand. How many hands have glitter on them, even if it is only one piece of glitter?



What happened

Even though only one person was 'infected' with glitter to begin with, you have probably found that they have spread that glitter to quite a few others very quickly, just by shaking hands. Germs can spread the same way, but they spread even more easily, as germs are far more numerous than the glitter flakes, they are harder to remove and they can remain active for up to three hours.

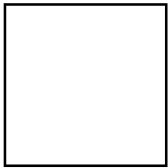


So always wash your hands before and after taking your meal.

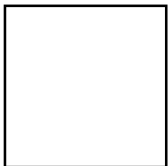
Cut and Paste the Correct Animals Picture

Read the clues, find the correct animal's picture from page 7 and cut & paste them accordingly to the matching clue.

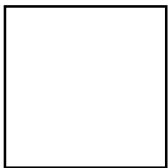
1. I live on land.
People love riding on me.



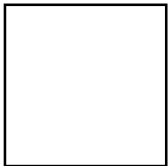
2. I have a strong sense of smell.



3. I eat dung. My model is used as the money box by children.



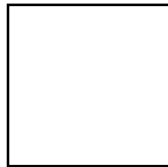
4. I am the baby of hen!



5. My name is Pusy. I love milk and rat.



6. I say "Quack-Quack". I have webbed feet.



7. Water is my life. I cannot live without water.



8. I can go higher up in the sky and live on trees.



9. I give you wool to make woollen cloths for winters.



10. I am the friend of farmers. I work for them and give milk too.



11. I am afraid of cat. I live in holes.



12. I also give milk but only a few people drink that.



The Sun



Don't you think the sun is bright?
I wonder where it goes at night?
Does it sleep or does it hide?
Or is the moon its other side?

Does it hide behind the hills?
Late at night as outside chills?
Do you think it needs to rest?
From all that warming it does best?

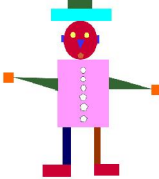
Could it even have a home?
Maybe in India or even in Rome?
Or does it just float around?
Moving slowly from town to town?

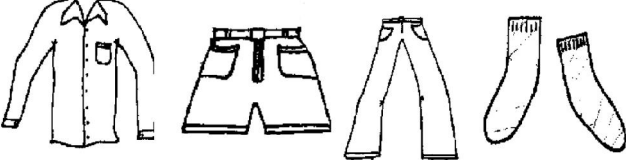
Yes, I think it must do that!
After all the earth's not flat.
So the sun goes round and round
Spreading sunshine on the ground!



Sun Jobs Activity

What jobs does the sun do ? Some jobs of sun are given below. Can you think some more. You can also make chart for your classroom.

The  makes a  warm

The  dries 

The  gives  energy

The 

The 

The 

Nationwide Interactive Science Olympiad, 2007

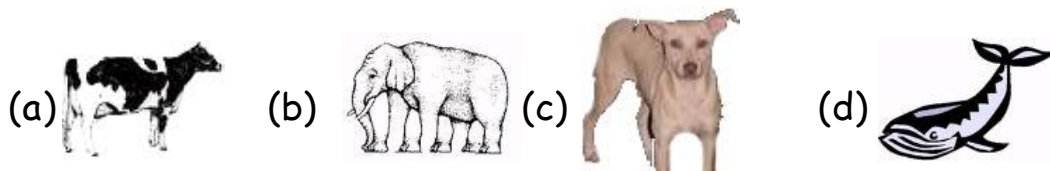
Sample Questions

SCIENCE

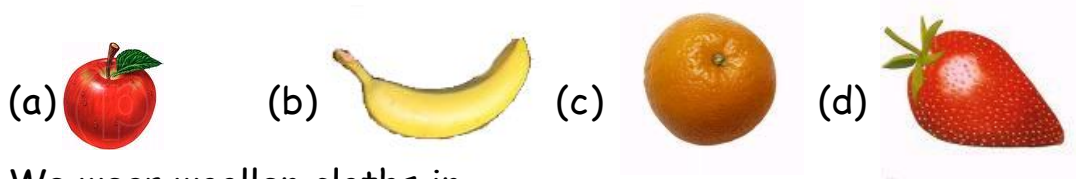
1. Which of the following plant is a herb?
(a) Jamun (b) Cotton (c) Spinach (d) Coconut
2. Which of the following food is a root?



3. Find the odd one



4. An animal with white and black lines is
(a) Lion (b) Horse (c) Zebra (d) Cow
5. One light of traffic signal says "Wait", which fruit has the same colour.



6. We wear woollen cloths in
(a) Summer (b) Winter (c) Rainy day (d) All of these

7.    Which common things they all need?
(a) Water (b) Air (c) Thread (d) Sun



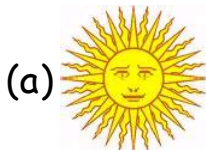
8. Which part of your house is this ?



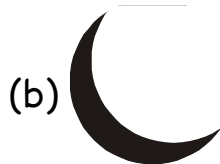
- (a) Bedroom
(c) Kitchen

- (b) Bathroom
(d) Drawing room

9. Where do people live ?



On sun



on moon



on earth



on stars

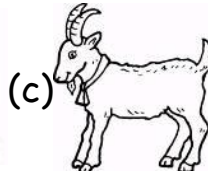
10. Which of the following animals do not give milk to us ?



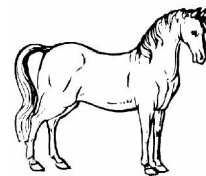
(a)



(b)



(c)



(d)

MENTAL ABILITY

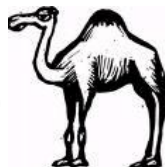
11. Which of the following number is largest?

- (a) 78 (b) 87 (c) 70 (d) 60

12. Which of the following animal is heaviest?



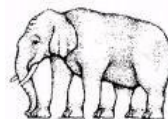
(a)



(b)



(c)



(d)

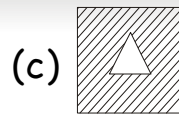
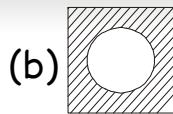
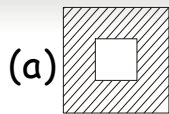
13. Which of the following body part is two in number?

- (a) Stomach (b) Tongue (c) Hand (d) Head

14. Which is correct

- (a) $20 > 50$ (b) $30 = 03$ (c) $52 < 25$ (d) $19 < 91$

15. From which paper sheet  is cut

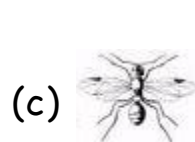
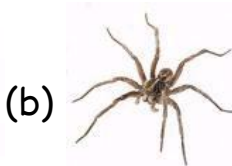


COMPUTER

16.  Part marked by arrow is called

- (a) Monitor (b) Lens (c) CPU (d) Keyboard

17.  This part of computer and one animal / insect shown below has same name.



18. Computer looks like
(a) Radio (b) Television (c) Walkman (d) Transistor

19. Computer can
(a) Calculate (b) Eat (c) Hear (d) Smell

20. What you can not do with computer?
(a) Listen music (b) Draw picture
(c) Solve your sums (d) Make chapaties

Answer key :-

- | | | | | |
|---------|---------|---------|---------|---------|
| 1. (c) | 2. (c) | 3. (d) | 4. (c) | 5. (b) |
| 6. (b) | 7. (b) | 8. (c) | 9. (c) | 10. (d) |
| 11. (b) | 12. (d) | 13. (c) | 14. (d) | 15. (b) |
| 16. (a) | 17. (a) | 18. (b) | 19. (a) | 20. (d) |

