

Prime  
Consult

# THE PRIME EXAMINATIONS 2023

## PRIMARY FIVE END OF YEAR INTEGRATED SCIENCE

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**Time allocated 2 hours 15 minutes**



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Name:.....

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### READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two sections: A and B**. Section A has **40 questions (40 Marks)** and Section B has **15 questions. (60 Marks)**
2. Answer **ALL** questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers **must** be written using a **blue or black ball point pen or ink**. Any work written in pencil will **not** be marked.
4. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
5. Do not fill anything in the table indicated  
- **"FOR EXAMINERS' USE ONLY"**

FOR EXAMINERS' USE ONLY		
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

APPROVED:

Consultant

Integrated Science Department (PEC)

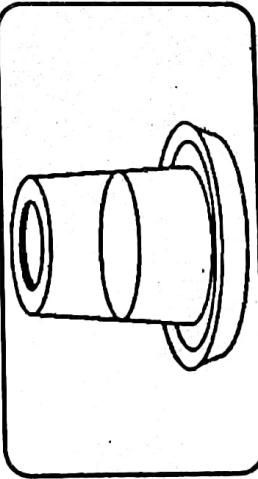
### PUBLISHERS OF:-

THE PRIME; SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES  
LEARNING GAMES, REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

**Section A (40 Marks)**

1. Name the common accident caused by careless running.
2. To which type of change do you group ripening fruits in the environment?
3. Why do farmers carryout dosing in goats?
4. Give one advantage of bottle feeding to the mother.
5. Mention the element of PHC that helps to prevent bad body smell.

The diagram below shows an equipment found in a deep litter house. Use it to answer questions 6 and 7.



6. Name the equipment shown in the diagram above.

7. Give the use of the equipment shown in the diagram above in a deep litter house.

8. Which component of air is used to preserve semen obtained from Billy goats?

9. State one way of conserving wood fuel at home.

10. Mention one example of a physical change in the environment.

11. Name the goat disease caused by trypanosomes.

12. Why should pregnant mothers be fed with foods rich in proteins?

13. How do bacteria reproduce in the environment?

Give the reason for washing our hands with soap and clean water after using a latrine.

State one way of caring for carrot crops in the garden.

The diagram below shows a method of keeping goats. Use it to answer questions 16 and 17.



Name the method of grazing goats shown in the diagram above.

Give one advantage of using the method above when grazing goats.

What do we call **the energy possessed by a rolling stone?**

Name any one type of a rabbit hutch.

Why is **rusting** referred to as a **chemical change?**

State one principle of PHC.

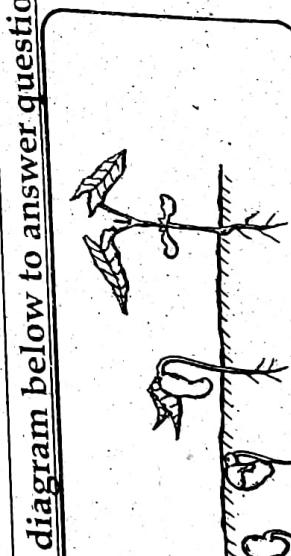
Name one mineral salt absent in breast milk.

Why is marasmus called a non-communicable disease?

3. Which part of an egg is similar to the plumule and the radicle of a germinating seed?  
4. Give one reason for constructing a goat's house with a slanting floor.

5. Use the diagram of a garden tool below to answer questions 26 and 27.



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26. Name the farm equipment shown in the diagram above.
27. How can a farmer prevent the above garden tool from rusting?
28. You are a health prefect in your school. Give one activity you would do during health parades.
29. State the role of a queen bee in the hive.
30. Mention one danger of food beliefs to human health.
31. How can a farmer improve on local breeds of goats in a farm?
32. Which method can be used to separate stones from beans?
33. In which one way is a child health card important to a health worker?
34. Write 3Ds in full as used in science.
35. Why do plants need sunlight in the environment?
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36. Study the diagram below to answer questions 36 and 37.
- 
- Name the type of change shown in the diagram above.
37. Give the reason to support your answer in (36) above.
38. In which part of the digestive system does the digestion of proteins start?
39. How are tapeworms dangerous to man?
40. State one role of a father at home.

### Section B (60 Marks).

(a) Mention any two examples of domestic animals kept at home.

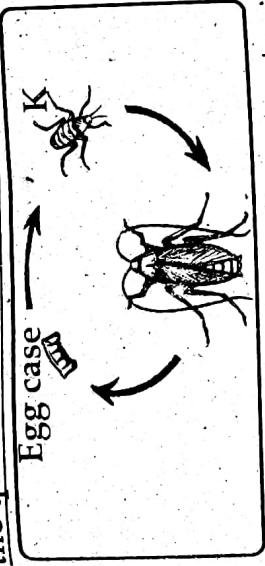
(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) Which animal product is used for making;

(i) leather bags

(ii) manure

The diagram below shows a type of metamorphosis. Study and use it to answer the questions that follow.



(a) Name the type of metamorphosis shown in the diagram above.

(b) Mention any two insects that undergo the type of metamorphosis shown in the diagram above.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(c) Identify the stage marked K from the diagram above.

(a) Write one responsibility of the following in promotion of health in the

(b) Mention any two examples of good health practices among people in the community.

(i) an individual

(ii) a family

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) Mention any two examples of good health practices among people in the community.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(a) What term is used to mean the following in bee keeping;  
(i) selecting a suitable place to put a bee hive.

4.

(ii) encouraging bees occupy an empty hive.

(b) State two factors to consider before choosing a place for an apiary.  
(i) \_\_\_\_\_ (ii) \_\_\_\_\_

45. Peter forgot his hoe out for a night. He found it when it has a brown powder on it.

(a) What do we call the **brown powder on the hoe?**

(b) Name the process that led to the formation of the brown powder on the hoe.

(c) How can the above process affect the hoe?

(d) Give **one** way how the above process can be prevented in metals.

46. (a) Name the type of mosquito that spreads yellow fever to people.

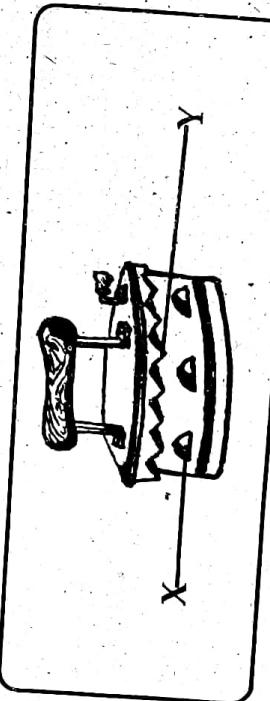
(b) Give **two** signs of malaria.

(i)

(ii)

(c) State any **one** effect of malaria to people.

47. The diagram below is of an ironing box. Use it to answer the questions that follow.



- (a) How are holes X and Y important on the iron box above?  
(i) X  
(ii) Y
- (b) What is the advantage of making the handle of an ironing box using wood?
- (c) Why is the ironing part of the ironing box made of a metal?

- (a) What is meant by the term **sanitation**?  
(b) State any **two** ways of promoting proper sanitation at home.  
(i)  
(ii)  
(c) Give **one** item used to promote proper sanitation.

9. Name the type of soil best for;

- (a) making ceramics
- (i) growing crops
- (ii) growing crops \_\_\_\_\_
- (iii) growing crops \_\_\_\_\_
- (b) Mention two components of the soil.

(i)

(ii) Match the elements of PHC in A and their importance in B.

A

(a) Health education

- (b) Sanitation
- (c) Oral and dental health care
- (d) Family planning

- (a) Health education
- (b) Sanitation
- (c) Oral and dental health care
- (d) Family planning

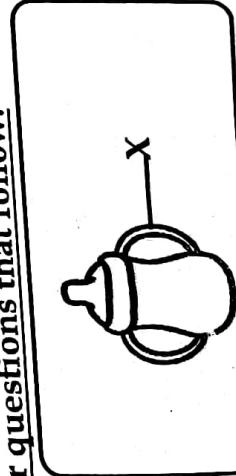
B

- (a) enables families to have few number of children.
- (b) helps to prevent teeth diseases.
- (c) helps to prevent communicable intestinal diseases
- (d) provides information how to care for our health.

50.

The diagram below shows an equipment used in the feeding of babies. Use it to answer questions that follow.

51.



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(a) Name the part marked X.

(b) Name the kind of feeding babies that requires the use of is such equipment shown in the diagram above.

(c) State one condition that can lead to above kind of feeding babies.

(d) Give one advantage of above kind of feeding to a baby.

52. (a) Mention any two methods castration.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_
- (b) Give any two reasons for castrating male animals.

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

53. (a) To what type of change would you group the following;

- (i) turning of ice into water

(ii) burning of dry wood into ash.

(b) Mention any two ways of managing body changes.

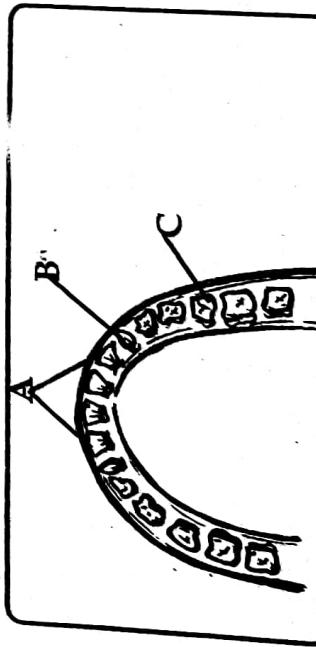
- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_

54. (a) What we call the *mass per unit volume?*

(b) Find the density of an object whose mass is 20g and volume 5cc. (03 Marks)

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55. The diagram below shows a human dental formula. Use it to answer the questions that follow.



(a) Name the teeth labelled A and B.

- (i) A \_\_\_\_\_ (ii) B \_\_\_\_\_

(b) Give the function of the tooth labelled C.

(c) State any one way of caring for our teeth.



No.	Aims/Objetive	Competency	Topic/Sub-topic/Curriculum Area	Section A (to Mafats)	Section B (to Mafats)	Values	Class	Teacher
1.	• Falls	Describes common accidents.	Accidents, First aid and Polisning P.21	Lifeskills	Lifeskills	Values	Class 1-6	Mrs. S. Mafat
2.	• Biological changes	Describes biological changes in the environment.	Types of changes P.41	Sheep and pigs.	Keeling goats, sheep and pigs	self awareness, critical thinking, creative problem solving, care, appreciation, logic, concern	P.5	C
3.	• To kill internal parasites.	Describes biological changes in the environment.	Types of changes P.41	Sheep and pigs.	Keeling goats, sheep and pigs	self awareness, critical thinking, creative problem solving, care, appreciation, logic, concern	P.5	C
4.	• It gives the mother time to do other duties; it enables mothers with less breast milk to feed their babies; it helps mothers to avoid infecting their babies/HIV/AIDS affected mothers to avoid infecting their babies/there is no need to worry about the mother's medication.	States advantages of bottle feeding to a mother.	Food and nutrition P.46	Keeling poultry and bees P.22	Names a water trough.	critical thinking, problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	A	Mrs. S. Mafat
5.	• Personal hygiene.	Describes elements of PHC.	PHC P.48			critical thinking, problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	C	Mrs. S. Mafat
6.	• Water trough/chicken drinker	Names a water trough/states uses of water trough.	Keeling poultry and bees P.22	Keeling poultry and bees P.22	Keeling poultry and bees P.22	critical thinking, problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	A	Mrs. S. Mafat
7.	• A water trough is used for putting in water for domestic birds//it's where birds drink from.	Names a water trough/states uses of water trough.	Keeling poultry and bees P.22	Keeling poultry and bees P.22	Keeling poultry and bees P.22	critical thinking, problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	A	Mrs. S. Mafat
8.	• Nitrogen	Describes uses of nitrogen gas.	Air P.22			critical thinking, problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	C	Mrs. S. Mafat
9.	• By planting trees/by using charcoal stoves/by putting out fire after cooking food.	Gives the ways of conserving wood fuel.	Energy in our sub country/ division P.17			critical thinking, problem solving, environmental awareness, concern, responsibility, logic, care, love, P.3	K	Mrs. S. Mafat
10.	• Melting of butter/ice/plastic/evaporation of water to steam/vapour/freezing of water to ice/condensation/sublimation/deposition/earthquakes/changes in weather.	Types of changes of physical changes.	Personal hygiene P.37	Startera and fungi P.39	Bacteria and fungi P.39	critical thinking, creative problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	C	Mrs. S. Mafat
11.	• Negana	Describes goat diseases.	P.41	With soap.	Personal hygiene P.37	critical thinking, creative problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	K	Mrs. S. Mafat
12.	• To enable the unborn baby grow inside her womb/to repair the worn out tissues in her body.	Gives the importance of proteins to the pregnant mothers.	P.43	Solvinig, creative thinking	Keeling goats, sheep and pigs	critical thinking, creative problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	C	Mrs. S. Mafat
13.	• By binary fission	Starter the mode of reproduction in bacteria.	P.43	Food and nutrition P.46	Keeling goats, sheep and pigs	critical thinking, creative problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	C	Mrs. S. Mafat
14.	• To kill germs.	Gives the reason for washing hands	P.43	Bacteria and fungi P.39	Bacteria and fungi P.39	critical thinking, creative problem solving, environmental awareness, concern, responsibility, logic, care, love, P.4	A	Mrs. S. Mafat
15.	• By weeding/spraying/thinning/watering/ applying fertilizers.	Starts ways of caring for carrot crops	P.43	Growing crops P.28	Growing crops P.28	critical thinking, creative problem solving, environmental awareness, concern, responsibility, logic, care, love, P.5	C	Mrs. S. Mafat
16.	• Tethering method.	Discusses tethering methods of grazing goats.	P.43	Keeling goats, sheep and pigs	Keeling goats, sheep and pigs	critical thinking, creative problem solving, environmental awareness, concern, responsibility, logic, appreciation, P.5	A	Mrs. S. Mafat
17.	• Ensures efficient use of pasture/enables the growth of pasture in other areas/it controls over grazing/manure is evenly distributed on the farm/it prevents animals damage crops/animals get the best pasture/it does not require much attention.	Describes forms of mechanical energy.	P.43	Heat energy P.33	Heat energy P.33	critical thinking, self awareness, critical thinking, self awareness, concern, responsibility, logic, appreciation, P.5	C	Mrs. S. Mafat
18.	• Kinetic energy	Describes forms of mechanical energy.	P.43	Soil P.30	Soil P.30	critical thinking, self awareness, concern, responsibility, logic, appreciation, P.5	C	Mrs. S. Mafat
19.	• Morant hutch/caged hutch/traditional hutch	• Morant hutch/caged hutch/traditional hutch					P.5	P.5

Page   3	RESULTS TO FORMATION OF NEW SUBSTANCE/ RUSTING IS TOTAL HAZARD FOR ALL MEMBERS IN THE COMMUNITY MUST PARTICIPATE IN ALL ACTIVITIES/ HEALTH SERVICES SHOULD BE AFFORDABLE/ METHODS USED TO PROVIDE HEALTH CARE SHOULD BE ACCEPTABLE IN THE COMMUNITY.	21.
22.	• Calcium/ phosphorus/ iodine/ magnesium/ iron/ potassium. • Participate in all activities/ health services should be affordable/ methods used to provide health care should be acceptable in the community.	<p>Name mineral salts found in breast milk.</p> <p>Names mineral salts found in breast</p> <p>Food and nutrition P.46</p> <p>Our food P.44</p> <p>Describes non communicable diseases.</p> <p>Critical thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>Care, concern</p> <p>Logic, responsibility</p> <p>Care, responsibility</p> <p>Critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>Care, concern</p> <p>Logic, responsibility</p> <p>Care, responsibility</p> <p>Critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>Care, concern</p> <p>Logic, responsibility</p> <p>Care, responsibility</p>
23.	• It does not spread from infected person to another.	<p>Keeping poultry and bees P.22</p> <p>Gives the reason for constructing goat's house with a sloping floor.</p> <p>Keeping goats, sheep and pigs.</p> <p>Describes the garden tools</p> <p>Growing crops P.38</p> <p>States activities carried out during PHC 48</p> <p>Critical thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.4</p>
24.	• embryo	<p>Keeping poultry and bees P.22</p> <p>Gives the role of the queen bee.</p> <p>Keeping poultry and bees P.22</p> <p>States the dangers of food beliefs.</p> <p>Food and nutrition P.46</p> <p>critically thinking, creative environment awareness</p> <p>Logic, concern</p> <p>C</p>
25.	• For easy flow of urine outside/ for easy cleaning of the house.	<p>Keeping goats, sheep and pigs.</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
26.	• Wheel barrow	<p>Gives the reason for constructing goat's house with a sloping floor.</p> <p>Keeping goats, sheep and pigs.</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
27.	• By painting	<p>Describes the garden tools</p> <p>Growing crops P.38</p> <p>States activities carried out during PHC 48</p> <p>Critical thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.4</p>
28.	• Checking whether the pupils' nails are short/ checking children's clothes/ uniforms are clean/ checking whether the children's bodies are clean/ checking whether the children's hair/ clothes/ uniforms are clean/ checking whether the children's nails are brushed.	<p>A queen bee lays eggs in the hive.</p> <p>Keeping poultry and bees P.22</p> <p>Gives the role of the queen bee.</p> <p>Keeping poultry and bees P.22</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
29.	• Diseases.	<p>Keeping goats, sheep and pigs.</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
30.	• Food allergies lead to malnutrition / nutritional deficiency	<p>Keeping poultry and bees P.22</p> <p>critically thinking, creative environment awareness</p> <p>Logic, concern</p> <p>P.5</p>
31.	• By carrying out cross breeding.	<p>Keeping goats, sheep and pigs</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
32.	• Sorting/ hand picking.	<p>Keeping goats, sheep and pigs</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
33.	• It helps them to monitor the child's growth rate/ it helps them to monitor the next vaccine to be given/ it helps them to know the next vaccine to be given/ it helps them to know the next vaccination.	<p>Gives the importance of child health immunisation P.26</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
34.	• Diarrhoea Dehydration Death	<p>Gives the importance of child health immunisation P.26</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
35.	• To carry out photosynthesis/ to make their own food.	<p>Plant life P.21</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.4</p>
36.	• Biological changes	<p>Types of changes P.41</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
37.	• Biological changes take place in living things.	<p>Describes biological changes.</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
38.	• In the stomach	<p>Digestive system P.28</p> <p>critically thinking, creative environment awareness</p> <p>Logic, appreciation</p> <p>P.5</p>
39.	• They feed on digested food in human's body/ tape worms lead to stunted growth/ tape worms to body weakness.	<p>Commuicable intestinal diseases and worm infestation</p> <p>critical thinking, creative environment awareness</p> <p>Logic, responsibility</p> <p>P.5</p>

40.	(a) Pays fees/bills/buys food.	States the roles of the father at home.	Familly roles P.10	environmental awareness, appreciaton	logic, care,	P.5	C
41.	(a) Dogs, cats, goats, cows, pigs, sheep	Describes domestic animals	Animals P.17	critical thinking, creative concern	logic, appreciaton,	P.3	K
42.	(a) incomplete metamorphosis	States the roles of the father at home.	Section B (60 Marks)	critical thinking, creative solving	logic, appreciaton,	P.5	A
43.	(a) Brushing teeth everyday/ washing hands before eating food/ brushing teeth every after a meal/ ironing clothes and bedding/ cutting short finger and toes nails	Describes responsibilities of different people in health promotion.	PHC P.49	Self esteem, self awareness, problem solving	logic, concern,	P.5	C
44.	(a) (i) Stinging the bee/hive (ii) Sticking a hive. (iii) Sticking a beehive.	Describes stocking and stting in bee keeping.	Keeping bees and poultry P.22	self esteem, critical thinking, love	logic, concern, care,	P.5	C
45.	(a) By rusting/corring/ by oiling moving parts of the weak. (b) It reduces the hoe blunt/ it changes and spoils the colour of a hoe/ it makes the hoe blunt/ it makes the hoe blunt/ it changes and spoils the colour of a hoe/ it makes the hoe blunt/ it changes and spoils the colour of a hoe.	Describes rusting in metals as chemical change	P.42	extreme, critical thinking, self awareness	logic, care, appreciation	P.5	C
46.	(a) Tiege/ needs mosquito (b) Shivering and shivering of teeth/ serious sweating/ rapid breathing and pulse rates.	Describes the iron box as used at home	Heat energy P.33	critical thinking, self esteem, critical thinking, self problem solving	logic, concern,	P.5	A
47.	(a) (i) X – lets in fresh air. (ii) Y – lets out warm air.	Describes the iron box as used at home	Heat energy P.33	critical thinking, creative concern	logic, appreciaton,	P.4	A
48.	(a) Is the general cleanliness of the compound and things we use/ is the way of keeping the compound clean. (b) Sweeping rubbish in the compound/ proper disposal of human waste/ proper disposal of rubber/ sweeping tail grass around the compound/ drainage stagnant water/ sweeping pit latrines/ burning rubbish.	Describes sanitation	Sanitation P.46	thinking environment, care, concern	logic, appreciaton,	P.4	K

