



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 5: LESSON 1
TOPIC: POLLUTION -CAUSES OF WATER POLLUTION**

NAME: _____

DATE: _____

FACTS/TIPS:

Water pollution is the contamination of water bodies such as lakes, rivers and oceans, very often caused by human activities. It is caused when pollutant such as waste particles, chemicals and other substances are discharged into these waterways.

Ways in which water can become polluted:

-When industrial and factory wastes such as sulphur, lead and other toxic materials are poured into rivers, trenches and seas.



-When organic waste distributed by domestic sewage from household bathrooms, toilets, kitchens, laundries and drains is dumped into oceans, rivers, lakes and other bodies of water.



-When the liquids from household septic tanks are drained out from a drainage pipe into nearby waterways.



-When household garbage that is non-biodegradable, such as styrofoam boxes, plastic bags and bottles are carelessly dumped into trenches and rivers.



-When there is oil spills from barges and ships or from the accidental leakage of crude oil during transportation.



-When farmers carelessly contaminate the water with fertilizers and pesticides by washing their equipment in the trenches.



**OWN YOUR OWN:
ANSWER ALL QUESTIONS.
Write your answers on the lines.**

1. What is water pollution?

2. List two types of toxic materials that factories would dump into the water ways?

(i) _____

(ii) _____

3. Name two non-biodegradable materials other than the ones mentioned above that can cause water pollution.

(i) _____

(ii) _____

4. Explain how you can encourage the farmers in your community to avoid water contamination?

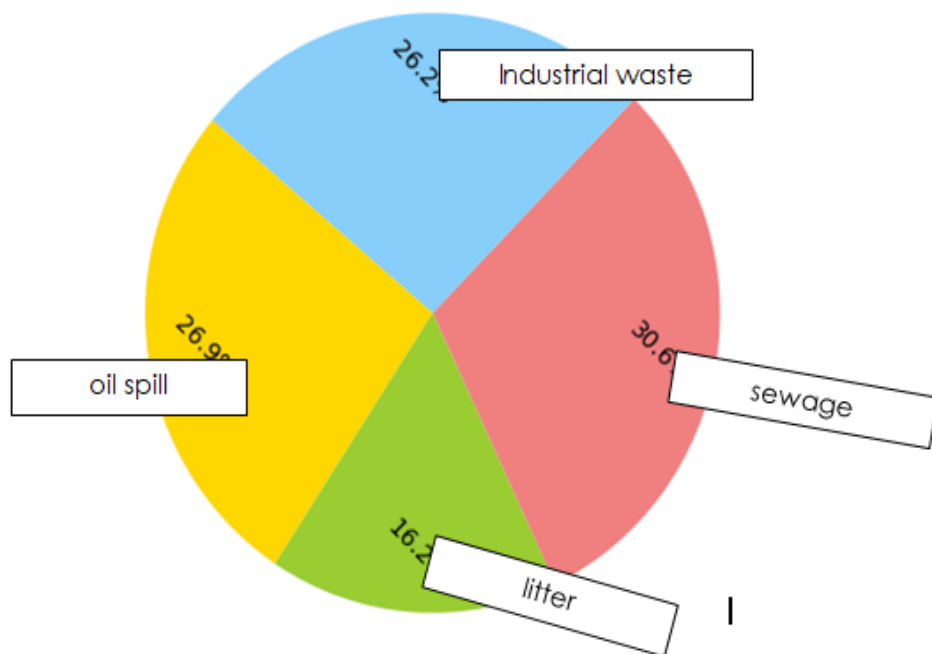
5. Discuss how oil spills can cause water pollution.

HOMEWORK:

The pie chart below shows the decimal fraction of the different causes of water pollution that is affecting the Atlantic Ocean.

Look at it carefully and answer questions 1 to 4.

Forms of pollution affecting the Atlantic Ocean:



1. In what way is the ocean being affected the most?

2. What is the amount of oil spill that is accidentally leaked into the ocean?

3. Which of the following causes of water pollution listed above is the least?

4. What can the government do to ensure that there is a decrease in the amount of sewage being dumped into the ocean?



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET: TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 5: LESSON 2
TOPIC: POLLUTION - EFFECTS OF WATER POLLUTION**

NAME: _____

DATE: _____

FACTS/TIPS:

Effects of water Pollution:

There are many effects of water pollution. It is harmful to aquatic lives, causes disruption of food-chains and spreads diseases to humans.

- **Death of aquatic lives:**



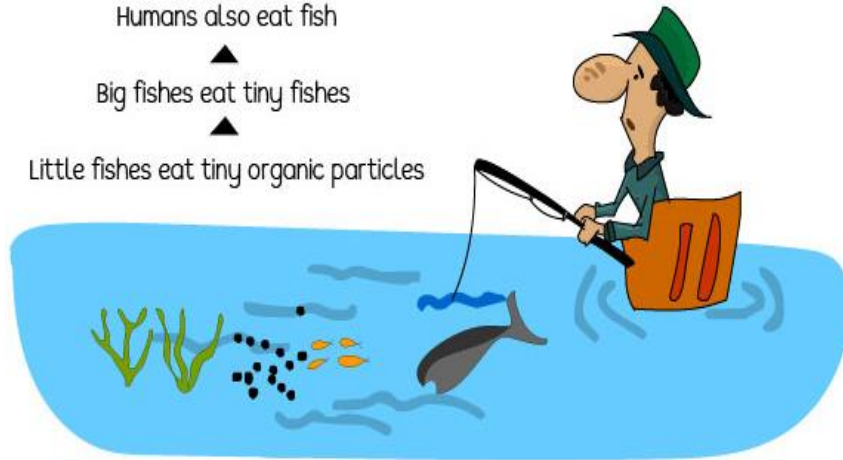
-It kills aquatic organisms such as turtles, crabs, fishes and plants. This happens when pollution in the water reaches a point where there is not enough oxygen for the fish to breathe. The fish will eventually suffocate and die. The plants will also die.

- **Disruption of food- chains:**

-It affects the entire food chain. Small fishes absorb pollutants, such as chemicals, into their bodies. Then bigger fishes eat the smaller fishes and get the pollutants too. Birds or other animals may eat the bigger fishes and be harmed by the pollutants.

Example of food chain

Humans also eat fish
▲
Big fishes eat tiny fishes
▲
Little fishes eat tiny organic particles



- **Diseases in humans:**

-It can cause flooding and spread water borne diseases to humans. People can get diseases such as diarrhea, cholera and typhoid from eating or drinking contaminated food.



Diarrhea



Vomiting



Typhoid



Diphtheria



Hepatitis



Kidney Damage



Nerve Disorders



Skin Lesions

Ways in which water pollution can be reduced:

-Provide suitable facilities for the collection and disposal of domestic waste.

-Avoid the use of chemical pesticides such as weed killers or other fertilizers in the garden.

-Prevent the careless dumping of solid and liquid waste on land.

-Use less non-biodegradable materials and limit the use of washing detergents such as bleach, soap and dishwashing liquids.

ON YOUR OWN:

ANSWER ALL QUESTIONS.

Write your answers on the lines.

1. State two effects of water pollution.

2. What can happen after the small fishes absorb pollutants?

3. List two ways in which water pollution can affect humans.

(i) _____

(ii) _____

4. Explain what is meant by water borne disease.

5. List two ways in which you can encourage the residents in your community to promote the reduction of water pollution.

(i) _____

(ii) _____

HOMEWORK:

You have noticed that the residents of your community are dumping their garbage in the main canal and this is having a serious effect on the fishes. What can you do, as a primary school child, to reduce this problem?

Create a poster promoting ways to prevent water pollution.



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
LESSON: REVIEW WEEK 5**

NAME: _____

DATE: _____

ANSWER ALL QUESTIONS.

Write your answers on the line.

1. Identify one cause of water pollution.

_____.

2. List two ways in which human activities can cause water pollution.

(i) _____

(ii) _____

3. Name one disease that can be caused by drinking contaminated water.

4. Which of the following is an example of water pollution?

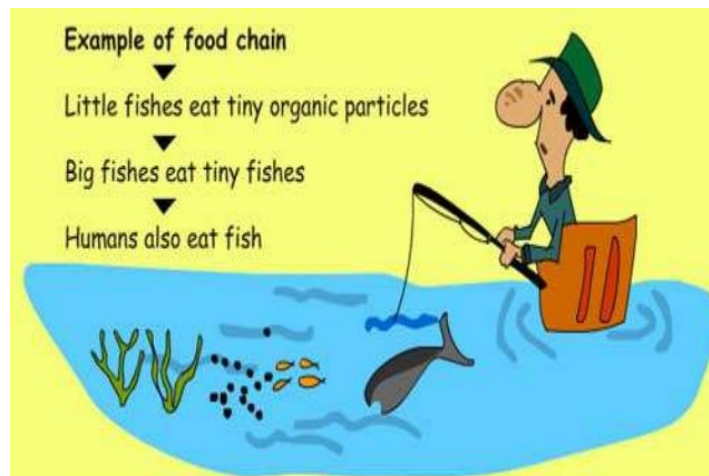
(a) Spills from ships (b) Animals walking along the beach
(c) Drinking water out of a plastic bottle

5. Explain in your own words how can sewage contaminate water bodies.

6. What do you think can happen to fishes if there is not enough oxygen in the water?

7. Water pollution can affect an entire food chain.

Discuss how humans can be affected.



8. How do you think the dumping of garbage in trenches can lead to flooding?

Read the information below and answer questions 9 and 10.



Household garbage is carelessly dumped into trenches, seas and rivers.

9. Identify one effect this can have on the environment.

10. State one way in which the government can help to reduce this form of water pollution.



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 6: LESSON 1
TOPIC: POLLUTION – CAUSES OF AIR POLLUTION:**

NAME: _____

DATE: _____

FACTS/TIPS:

Air Pollution:

Air pollution occurs when gases, dust, smoke or odour get into the air and make it unclean and harmful to humans, animals and plants. It can result from both human and natural causes.

Ways in which the air can become polluted:

Natural causes of air pollution include forest fires, volcano eruptions, wind erosion and dust storms. These natural causes do not occur very often.



Volcano eruption



Forest Fire



Dust storm

Human activities that resulted in air pollution.

-The burning of fossil fuels like coals, petroleum and natural gas.



-Emissions of dangerous gases such as carbon monoxide, organic compounds, and lead from vehicle exhaust.



-The depositing and burying of waste for landfills which generate methane.



-Factories, industries and incinerators release a large amount of carbon monoxide and chemicals into the air through the reckless burning of garbage.



-Household and farming chemicals such as household cleaning products, insecticides, pesticides and fertilizers emit harmful chemicals into the air.



ON YOUR OWN:

ANSWER ALL QUESTIONS.

Write your answers on the lines.

1. What is air pollution?

2. List one way in which air pollution can occur naturally.

3. Name one dangerous gas that emits from vehicle exhaust.

4. State one human activity which can cause air pollution.

5. Which of the following forms of air pollution listed below, is not done by human activities?

- | | |
|-------------------------------------|---------------------------|
| (a) Burning of fossil fuels | (b) Using of insecticides |
| (c) Emission from vehicle's exhaust | (d) Volcano eruption |

HOMEWORK:

Study the drawing below and answer the questions.



1. Identify two causes of air pollution in your community.
2. What can you do to help prevent air pollution?



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 6: LESSON 2
TOPIC: POLLUTION –EFFECTS OF AIR POLLUTION**

NAME: _____

DATE: _____

FACTS/TIPS:

Effects of air pollution.

Air is important for living things to stay alive. However, when the air is polluted it can have serious effects on humans, plants and animals.

Effects on Humans:

- It increases the risk of several respiratory disorders, heart diseases and lung cancer.
- It causes irritation to eyes, mouth, nose and throat.
- It increases the risk of pneumonia, asthma and bronchitis.

Effects on Plants:

- The burning of fossil fuels releases harmful substances in the air. The water droplets combine with these pollutants, become acidic and fall as acid rain which damages plant life.

Effects on Animals:

- It compels the animals to leave their habitat and shift to a new place.
- It renders them to stray.
- It leads to the extinction of a large number of animal species.



Ways in which air pollution can be reduced:

- Reduce, reuse, or recycle waste instead of burning garbage.
- Use energy wisely at home or at school. Turn off lights, computers, and other electrical appliances when not in use.
- Use energy efficient light bulbs and appliances.
- Use bike or walk when necessary.
- Use environmentally friendly cleaning products whenever possible.

- Avoid the use of aerosol spray products.
- Make compost heap and avoid burning garbage.

ON YOUR OWN:

ANSWER ALL QUESTIONS.

Write your answers on the lines.

1. State one effect of air pollution on animals.

2. Circle the letter near the correct answer.

Identify one way by which people can reduce air pollution?

(a) Create major forest fires. (b) Use more pesticides to kill bugs.

© use less aerosol spray products.

3. Do you think air pollution is dangerous? Briefly explain your answer.

4. State one advice you can give to your teachers in order for them to help reduce air pollution in your school.

5. List two effects air pollution may have on the pupils in your school.

(i) _____

(ii) _____

HOMEWORK:

1. Explain the effect of air pollution on plants.

-
2. In the box provided below draw a picture of a plant that is affected by air pollution.





**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
LESSON: REVIEW WEEK 6**

NAME: _____

DATE: _____

ANSWER ALL QUESTIONS.

Write your answers on the line.

Choose the statement below that best completes the sentence.

1. Air pollution means that_____.

- | | |
|--|--|
| -it's cloudy outside. | -people burn fossil fuels to drive cars. |
| -there are dangerous gas and smoke in the air. | |

2. List two natural causes of air pollution.

(i) _____

(ii) _____

3. Two diseases that are caused by air pollution are _____ and _____.

Circle the letter near to the correct answer.

4. Which of these problems can be caused by air pollution?

- | | |
|-------------------------------------|----------------------------|
| (a) Reduced food sources for humans | (b) Respiratory problems |
| (c) Decrease in global temperatures | (d) Increase in plant life |

In questions 5-7 circle the letter near the correct answer.

5. Which statement below can best describe fossil fuels?

- | |
|---|
| (a) Natural energy sources like coal and oil. |
| (b) A product made in factories. |
| (c) Side effect of air pollution |

6. Which of these problems can be caused by air pollution?

- | | |
|-------------------------------------|----------------------------|
| (a) Reduced food sources for humans | (b) Respiratory problems |
| (c) Decrease in global temperatures | (d) Increase in plant life |

7. Which of the following are **not** natural sources of air pollution?

- (a) Volcanos and wild fires
- (b) Paints and fertilizers in the atmosphere
- (c) erosion and dust storm

Study the picture then answer the question.



8. Name one gas which is produced by a vehicle's exhaust and is dangerous to human health.

9. Explain in your own words, what can happen to animals when they are affected by air pollution.

Circle the letter near the correct answer.

10. All of the following are ways in which children can help in reducing air pollution **except**.



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 7: LESSON 1
TOPIC: POLLUTION – CAUSES OF NOISE POLLUTION**

NAME: _____

DATE: _____

FACTS/TIPS:

Noise Pollution:

- Noise is the production of unwanted sound which produces unpleasant effects and discomfort to the ears.
- Sounds become unwanted when it either interferes with normal activities such as sleeping or in a conversation.
- Not all noise can be called noise pollution, if it does happen regularly, it is termed as nuisance, for instance barking of dogs and burglar alarm.

Causes of Noise Pollution:



Household Equipment:

Household gadgets like food mixer, grinder, vacuum cleaner, washing machine, blenders and air conditioners can create noise pollution when in use.

Social Events:



Most times when there is a celebratory event, there is loud music, laughter and even signing. Places of worship, discos, parties and other occasions create lots of unwanted noise for people in the area.

Commercial and Industrial Activities:



Printing press, manufacturing industries, construction sites contribute to noise pollution. In many industries, it is required that people must always wear ear plugs to minimize their exposure to heavy noise.

Transportation:

The honking of vehicle horns on the roads and airplanes taking off and landing as well as busy airports all produce intense noise which people always struggle to cope with.



**ON YOUR OWN:
ANSWER ALL QUESTIONS.
Write your answers on the lines.**

1. What is noise pollution?

2. List two causes of noise pollution.

(i) _____

(ii) _____

3. Circle the letter near the correct answer.

Which of the following household gadgets listed below is **not** a form of noise pollution when in use?

vacuum	gas stove	blender
--------	-----------	---------

4. Why do you think, workers in industries are required to wear earplugs?

5. Circle the letter near the correct answer.

Which of the following tells of noise pollution?

(a) Having dinner at home. (b) The weeder using his grass cutting machine. © Completing homework on the computer.

HOMEWORK:

1. In the box below draw pictures to show two causes of noise pollution in your community.
2. What advice would you give to the residents in order to reduce such pollution?

A large, empty rectangular box with a thin black border, intended for students to draw pictures and write their answers to the homework questions.



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 7: LESSON 2
TOPIC: POLLUTION –EFFECTS OF NOISE POLLUTION**

NAME: _____

DATE: _____

FACTS/TIPS:

Noise pollution.

Our ears can take in a certain range of sounds without getting damaged. Any unwanted sound that it has not been built to filter can cause serious effects on human health. Sound is measured in decibels and becomes harmful when it exceeds 75 decibels.

Effects of noise pollution:

- **Physical Problems:** Respiratory ailment, high blood pressure, headaches, and even heart attacks.
- **Hearing Problems:** Damage to the eardrums and loss of hearing.
- **Psychological Problems:** Attacks of stress, fatigue, depression, anxiety and aggressive behavior. The level of irritation increases with loud noise, and people tend to become impatient and aggressive.



- **Memory and concentration:** Affects the ability to focus, which can lead to poor performance. It can also affect the memory and make it difficult to retain information.
- **Sleep disorders:** Hampers the sleeping pattern, thereby leading to irritation and uncomfortable situations.
- **Scaring of Animals:** Pets are more aggressive when there is constant noise. They may become dangerous, disoriented and scared and may also suffer from hearing loss.

Ways in which noise pollution can be reduced:

- Creating noise free zones.
- Noise producing industries, airports, and bus and transport terminals should be placed far from living places.
- Construction of sound proof rooms for noisy machines in industries must be encouraged.
- Place bans on the use of horns with jarring sounds and on motorcycles with damaged exhaust pipes.
- Stiffer penalties should be enforced for the misuse of loud music.

**ON YOUR OWN:
ANSWER ALL QUESTIONS.**

Write your answers on the lines.

1. What can happen to humans if they are constantly exposed to loud sound?

Circle the letter near the correct answer.

2. Which of the following is an effect of noise pollution?

(a)Cholera	(b)Diarrhea	(c)toothache
------------	-------------	--------------

3. Which of the following is **not** a way to reduce noise?

(a)Place bans on motorbikes with default exhaust. (b)Impose stiffer penalties for the misuse of music. © Discouraging noise free zones.

4. Identify two psychological problems an individual may encounter due to loud noise.

(i) _____ (ii) _____

5. Your father operates a furniture factory in the neighbourhood. The neighbours always complain about the loud noise coming from the electrical tools he uses. What advice would you give to your father in order for him to reduce the noise level?

HOMEWORK:

1. Have you ever travelled in a minibus and there is extremely loud music blasting from the music system? If you have, explain briefly how you felt.

2. As a school child, what you plan to do if it happens again?



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
LESSON: REVIEW WEEK 7**

NAME: _____

DATE: _____

ANSWER ALL QUESTIONS.

Write your answers on the line.

1. When does noise become pollution?

2. Some noise is referred to as noise nuisance. Name one such noise.



3. List two ways other than the ones shown in the picture above that can contribute to noise pollution.

(i) _____

(ii) _____

4. Two commercial activities that contribute to noise pollution

are _____ and _____.

5. What do you think would be the main cause of noise pollution at a birthday party?

6. Noise at a very high level can destroy our ear drum.

TRUE/FALSE

7. What unit is used to measure sound?

8. Discuss in your own words what effect can noise pollution have on animals.

9. John noticed that his pet dog was hiding in its kennel and refusing to come out after the children next door lit some fire crackers.

What do you think was the main reason for the dog's refusal to come out of the kennel?

10. Explain in your own words how loud noise can affect your concentration when you have to study for an exam.



MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 8: LESSON 1
TOPIC: LEISURE ACTIVITIES

NAME: _____

DATE: _____

FACTS/TIPS:

Leisure Time: Leisure is free time spent away from work and school. It is the time when you can relax and do things that you enjoy. Leisure time is very important especially after a hard day's work.



Some additional ways people can spend their leisure time are:

Going for a walk in the park; attending church meetings; visiting a farm; or going on a fishing or hunting trip.

Categories of Leisure Activities:

Leisure activities can be categorized as passive leisure and active leisure.

Passive leisure activities are the time that people spend at home engaging in activities that are relaxing and which require little or no physical effort.

Some passive leisure activities include: reading books, listening to music, watching television and playing video games.



Active leisure activities which involve using physical or mental energy, often connect with recreational activities.

Some active leisure activities include: Gym workouts, swimming, cycling, running or jogging and dancing.



**ON YOUR OWN:
ANSWER ALL QUESTIONS.
Write your answers on the lines.**

1. What is leisure time?

2. List two leisure activities other than the ones mentioned above.

(i) _____

(ii) _____

3. Why do you think leisure activities are important?

4. What are the two categories of leisure activities?

_____ and _____

5. Name the category of leisure activity shown in the picture below.





**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
WEEK 8: LESSON 2
TOPIC: LEISURE AND NON-LEISURE ACTIVITIES**

NAME: _____

DATE: _____

FACTS/TIPS:

Leisure Activity:

Leisure is recreation and relaxation after work or school. People can relax and recreate in many places in the community.

Some of these places include playground, beach, community centre, park and cinemas.



Playground



Beach



Park

Non-leisure activities:

Non-leisure activities are important for good health. They include all those things you need to do, but aren't things you necessarily enjoy doing. Some of these activities include:

- Chores done at home such as cooking, cleaning and washing.
- Work done to earn money such as working in the office, fields or factories.

- Work done to enhance the community such as building a bridge or painting a fence.



Cooking



Working in the office



Working in the field

Benefits of Leisure Activities:

Benefits derived from leisure activities include physical and mental fitness.

Physical Benefits: Taking part in recreational activities can improve physical health. People who take part in these activities maintain lower body fat, less arthritis pain, and have lower blood pressure and cholesterol levels.

Mental Health: Participating in recreational activities help manage stress; provide a sense of balance and self-esteem, reduce anxiety and depression and give you the ability to grow socially, emotionally and mentally.

**ON YOUR OWN:
ANSWER ALL QUESTIONS.
Write your answers on the lines.**

1. What is non-leisure time?

2. List two non-leisure activities other than the ones mentioned above.

(i) _____

(ii) _____

3. List two places in the community where people can spend their leisure time.

(i) _____

(ii) _____

4. List two physical benefits people can gain from leisure time.

(i) _____

(ii) _____

5. Circle the letter near the correct answer.

Which of the following family member is **not** engaged in leisure activity?

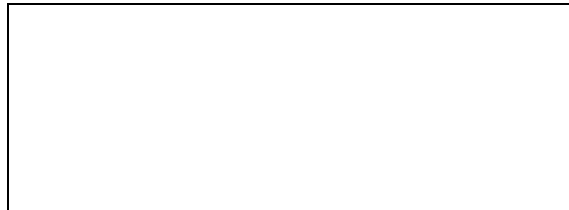
(a) Mom listening to her favourite music.

(b) Dad repairing the fence.

(c) Brother watching "Batman" on the television.

HOMEWORK:

- (i) Draw a poster showing one form of leisure activity which you enjoy.
- (ii) Explain two ways you can benefit from such an activity.



(i) _____

(ii) _____



**MINISTRY OF EDUCATION
PRIMARY ENGAGEMENT PROGRAMME
GRADE FOUR WORKSHEET-TERM 2
SUBJECT: SOCIAL STUDIES
LESSON: REVIEW WEEK 8**

NAME: _____

DATE: _____

ANSWER ALL QUESTIONS.

Write your answers on the line.

1. Leisure time is the time that is free
from _____ and _____.



2. Identify two leisure activities you and your friends can be engaged in during your recess period?

(i) _____

(ii) _____

3. Name one way in which you and your family often spend your leisure time.

4. List the two categories of leisure activities.

_____ and _____



5. The children in the picture are engaged in different recreational activities.

Which category of leisure activity are they engaged in?

From the list of leisure activities below, categorize each under passive or active activity.

- | | |
|----------------------------|---------------------------------------|
| 6. Tree climbing | 8. Listening to your favourite songs. |
| 7. Playing a game of chess | 9. Catching fish |

Nos.	Passive Leisure Activities	Active Leisure Activities
6.		
7.		
8.		
9.		

10. Write two ways by which leisure activities can benefit a person.

(i) _____

(ii) _____

11. Sam wants to do activities during his leisure time. List two places in your community where Sam can enjoy his leisure time.

(i) _____

(ii) _____

