

PlusOne

Science and Technology

Teacher's Guide



ECD A



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PlusOne

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Teacher's Guide



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Topic 1

Health and hygiene

Body parts

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the body parts labelled.
- b** colour the picture within the frame.

Source of material

- PlusOne Science and Technology ECD A Workbook page 1.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Videos of children sing rhymes about body parts.
- Video player
- Crayons
- Chart/pictures showing a labeled diagram highlighting body parts.

Suggested activities

- Learners sing rhymes about body parts.
- The facilitator helps the class in saying the body parts shown in the picture.
- Learners touch their heads, hands and legs.
- Class in groups talk about the functions of the labeled body parts.
- The facilitator asks the class to say their names.
- Learners name the body parts they know in front of the class.
- They colour the hands and legs in the picture.

Personal hygiene- Caring for clothes

Unit objectives

By the end of this lesson, learners should be able to:

- a** wash their socks.
- b** colour the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 2.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Bucket of water.
- Washing powder.
- Pegs
- Clothes rake.
- Crayons
- Charts/pictures showing a girl putting clothes on the line.

Suggested activities

- Learners sing a rhyme.
- Learners talk about what they see in the picture.
- Learners explain why we wash clothes.
- The facilitator talks about the importance of washing clothes.
- The facilitator tell the learners what happens if they do not wash clothes and practice personal hygiene.
- Learners colour the picture of the girl.

Personal hygiene- Using the toilet

Unit objectives

By the end of this lesson, learners should be able to:

- a** use the toilet on their own.
- b** colour the picture as illustrated.

Source of material

- PlusOne Science and Technology ECD A Workbook page 3.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested materials

- Crayons
- Model toilet.
- Chart/pictures showing a boy using the toilet.

Suggested activities

- Learners sing a rhyme.
- Class explain what they see in the picture.
- Facilitator tells the class the risks of being mischievous in the toilet.
- Facilitator asks if the learners can use the toilet on their own.
- Facilitator talks about the risks posed by an unhygienic toilet.
- Class colours the picture as shown.

Personal hygiene-Using the toilet

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the type of toilet shown.
- b** tell where this kind of toilet is found.

Source of material

- PlusOne Science and Technology ECD A Workbook page 4.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Model pit latrine.
- Crayons
- Charts/pictures showing a boy in the pit latrine.

Suggested activities

- Learners sing a rhyme.
- Facilitator discusses the types of toilet with the learners.
- Facilitator points out the risks of using a pit latrine.
- Facilitator talks about the diseases that can spread if the toilet is kept unclean.

- Facilitator say/sign ways to keep the toilet clean.
- Learners colour the picture class.

Personal hygiene-Washing hands

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what the girl is doing.
- b** wash their hands.

Source of material

- PlusOne Science and Technology ECD A Workbook page 5.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Chart/pictures showing a girl washing her hands on running water.
- Running water.
- Soap

Suggested activities

- Learners sing a rhyme about washing hands.
- Facilitator discusses the importance of washing hands.
- Learners explain when they wash hands.
- Facilitator talks about the diseases that resides on surfaces and why it is necessary to wash hands.
- Class sings the song shown in the picture.

Personal hygiene- Brushing teeth

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the activity in the picture.
- b** brush their teeth clean.

Source of material

- PlusOne Science and Technology ECD A Workbook page 6.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Tooth paste
- Tooth brush
- Water
- Crayons
- Video showing children brushing their teeth.

Suggested activities

- Learners sing a rhyme about brushing teeth.
- Class tells a story from the picture with the aid of the facilitator.
- Class colours the picture.
- Facilitator discusses with the learners the risks of not brushing their teeth.
- Class mimics brushing teeth as shown in the picture.
- Facilitator sign/say why we should brush teeth.
- Class sings the song.

Food hygiene

Unit objectives

By the end of this lesson, learners should be able to:

- a** wash fresh fruits and vegetables on the tap.
- b** identify the different fruits in the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 7.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Vegetables
- Apples
- Peers
- Pineapples
- Grapes
- Crayons
- Running water.
- Chart/pictures showing children washing fruits and vegetables.

Suggested activities

- Learners sing a rhyme.
- Facilitator helps the learners tell a story from the picture.
- Class wash fruits and vegetables.
- Facilitator explains the risks associated with eating fruits and vegetables that are not washed.
- Learners colour the fruits only.

Food hygiene

Unit objectives

By the end of this lesson, learners should be able to:

- a** name what the child is doing.
- b** identify the fruit in the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 8.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Apples
- Vegetables
- Crayons
- Charts/pictures showing a boy eating an apple.

Suggested activities

- Learners sing a rhyme.
- Learners describe the picture.
- Facilitator helps the class to understand the concept of healthy food.
- Learners state healthy foods they know.
- Learners explain what happens when you do not eat healthy.
- Learners colour the picture of the toddler eating healthy food.

Food hygiene

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the food groups in the picture.
- b** identify the odd one out in the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 9.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Cabbages
- Bananas
- Apples
- Fish
- Crayons
- Vegetables
- Chart/pictures showing different foods.

Suggested activities

- Learners sing a rhyme about healthy food.
- Learners name the food shown.
- Facilitator discusses the concept of healthy food with the class.
- Facilitator explains the significance of these foods on our diet.
- Learners colour the picture.
- Learners talk about their favourite food.

Food handling

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what the woman is doing.
- b** colour the picture.

Source of material

- Plus One Science and Technology ECD A Workbook page 10.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Pots
- Model stove
- Cooking spoon
- Water
- Vegetables
- Millie meal
- Crayons
- Chart/pictures showing a woman cooking on the stove.

Suggested activities

- Learners sing a rhyme about cooking.
- Learners explain what the woman is doing.
- Facilitator talks about cooking food until it is ready with the class.
- Facilitator warns the class about turning on the stove without adult supervision.
- Class colours the picture.

Environmental hygiene

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the place shown in the pictures.
- b** identify what is wrong in the first picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 11.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Model kitchen
- Plates
- Jugs
- Cups
- Spoons
- Dishes
- Dish cleaner
- Water
- Chart/pictures showing a sink with dirty dishes and another one which is spotless.

Suggested activities

- Learners sing a rhyme.
- Facilitator helps the learners tell a story from the pictures.
- Class explains what happens if the kitchen is left like that for a long time.
- Facilitator discusses the prospect of diseases that can arise if the kitchen is left like that.
- Class talk about cleanliness in the home.
- Learners explain what is wrong in the picture at the top.

Cleanliness in the home

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what the children are doing.
- b** colour the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 12.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Plates
- Cups
- Spoons
- Running water
- Dishwasher
- Chart/pictures showing children washing dishes.

Suggested activities

- Learners sing a rhyme.
- Facilitator helps the learners in telling a story from the picture.
- Class discusses how you help keep the house clean.
- Facilitator explains to the class the benefits they can receive if they help around in the house.
- Class discusses the advantages of keeping the house clean.
- Learners colour the picture that looks like you.
- Learners paste a sticker of a plate and spoon.

Ventilation and sunlight

Unit objectives

By the end of this lesson, learners should be able to:

- a** open the windows and curtains.
- b** colour the picture within the frame.

Source of material

- PlusOne Science and Technology ECD A Workbook page 13.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Windows
- Curtains
- Crayons
- Charts/pictures showing a boy opening windows and curtains in the morning.

Suggested activities

- Learners sing a rhyme.
- Facilitator helps the class tell a story from the picture.
- Class tells if it is morning, afternoon or evening in the picture.
- Facilitator asks the learners why the boy was opening the window.
- Facilitator discusses the importance of opening windows each and every morning with the class.
- Learners colour the boy.

Health and wellness

Unit objectives

By the end of this lesson, learners should be able to:

- a** skip rope.
- b** identify both activities in the pictures.

Source of material

- PlusOne Science and Technology ECD A Workbook page 14.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment.
- Skipping rope
- Crayons
- Chart/pictures showing people running and skipping rope.

Suggested activities

- Learners sing a rhyme about exercising.
- Facilitator ask the learners to explain what is happening in the picture.
- Learners explain how to keep fit.
- Facilitator helps the learners understand the importance of exercising.
- Learners colour the picture.

Topic 2

Food and nutrition

Sources of food

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the tree in the first picture.
- b** identify the activity in the second picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 15.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment
- Apples
- Milk
- Model cows
- Chart/pictures showing a woman milking a cow.

Suggested activities

- Learners sing a rhyme about food.
- Facilitator asks the learners about their favorite foods.
- Learners explain what they see in the pictures.
- Facilitator asks the class where milk comes from.
- Class explains where we get food.
- Class colours the pictures.
- Facilitator helps the learners illustrate the colours in the far right corner.

Sources of food

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the plants in the pictures.
- b** differentiate the animals.

Source of material

- PlusOne Science and Technology ECD A Workbook page 16.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment
- Model kraal
- Model chicken pen
- Cabbages
- Tomatoes
- Butternuts
- Carrots
- Charts/pictures showing various sources of food.

Suggested activities

- Learners sing a rhyme about food.
- Class sign/name what we can get from a vegetable garden.
- Facilitator aid the class in telling a story from the pictures.
- Learners stick the picture of a hen.
- Learners say where the animals in the picture live.
- Learners sign/say what we get from cows.
- Learners sign/say what we get from a hen.

Healthy snacks

Unit objectives

By the end of this lesson, learners should be able to:

- a** name each of the food in the pictures.
- b** colour the fruits with their original colours.

Source of material

- PlusOne Science and Technology ECD A Workbook page 17.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus

Suggested teaching and learning materials

- Apples
- Bananas
- Watermelons
- Potatoes
- Crayons
- Chart/pictures showing healthy foods.

Suggested activities

- Learners sing a rhyme.
- Facilitator asks the class where we get healthy foods from.
- Class discusses their favourite healthy food.
- Facilitator explains to the learners the importance of eating healthy foods and how they help their growth as children.
- Class colours the apple and bananas.
- They paste the sticker of potatoes.

Unhealthy snacks

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify all the unhealthy snacks in the picture.
- b** colour the pictures within the frames.

Source of material

- PlusOne Science and Technology ECD A Workbook page 18.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Ice- cream
- Sweets
- Cake
- Burger
- Crayons
- Chart/pictures showing unhealthy foods.

Suggested activities

- Learners sing a rhyme about food.
- Learners name unhealthy foods.
- Facilitator discusses with the learners why they must not eat unhealthy foods.
- Class explains what happens if one takes too much sugar.
- Learners colour the foods.
- Learners paste a sticker of a burger.

Topic 3

Crops, plants and animals

Plants (Type of plants)

Unit objectives

By the end of this lesson, learners should be able to:

- a identify the type of tree.
- b name the fruits of the tree.

Source of material

- PlusOne Science and Technology ECD A Workbook page 19.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment.
- Apple tree.
- Apples
- Chart/pictures showing an apple tree.

Suggested activities

- Learners sing a rhyme about trees.
- Class discuss what they see in the picture.
- Learners name the parts of the plant like fruits, leaves, stem and roots.
- Facilitator explains to the learners the risks that come from climbing trees.

Plants (Types of plants-trees)

Unit objectives

By the end of this lesson, learners should be able to:

- a identify the plant in the picture.
- b colour the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 20.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus,

Suggested teaching and learning materials

- Outdoor environment.
- Trees
- Crayons
- Charts/pictures showing trees.

Suggested activities

- Learners sing a rhyme about trees.
- Class explains what they see in the picture.
- Facilitator explains to the class the risks of climbing trees.
- Learners name the parts of the tree.
- Learners circle the roots.
- In groups, class discusses what we benefit from trees.
- Learners colour the leaves class.

Edible fruits or plants

Unit objectives

By the end of this lesson, learners should be able to:

- a** name at least two plants in the pictures.
- b** identify the fruits in the pictures.

Source of material

- PlusOne Science and Technology ECD A Workbook page 21.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment
- Pawpaw tree
- Mango tree
- Banana tree
- Chart/pictures showing various fruit trees.

Suggested activities

- Learners sing rhymes about trees.
- Class explain where they get bananas.
- Facilitator explains to the class the benefits of eating fruits.
- Class matches the plant with its fruit.

Vegetable gardening

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the different vegetables in the garden.
- b** colour the vegetables.

Source of material

- Plus One Science and Technology ECD A Workbook page 22.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment
- Green beans
- Cabbages
- Carrots
- Beetroot
- Crayons
- Chart/pictures showing a vegetable garden.

Suggested activities

- Learners sing a rhyme about vegetables.
- Learners name the vegetables in the picture.
- Facilitator discusses the benefits of eating vegetables with the class.
- Learners explain why we water the garden.
- Learners colour the pictures.

Vegetable gardening

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the vegetables in the bottom picture.
- b** water the garden.

Source of material

- PlusOne Science and Technology ECD A Workbook page 23.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus

Suggested teaching and learning materials

- Outdoor environment
- Garden can
- Water
- Carrots
- Tomatoes
- Cabbages

Suggested activities

- Learners sing a rhyme about vegetables.
- Facilitator helps the class tell a story from the pictures.
- Facilitator say/sign how to care for a garden.
- Class sign/say what vegetables need to grow.

Domestic animals (Animals found at home)

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the animals in the pictures.
- b** colour the pictures.

Source of material

- PlusOne Science and Technology ECD A Workbook page 24.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Model dog
- Model cat
- Model goat
- Model cow
- Play dough
- Clay
- Crayons
- Charts/pictures showing domestic animals.

Suggested activities

- Learners sing a rhyme about animals.
- Learners name the animals in the pictures.
- Learners identify the domestic animals.
- Facilitator helps the learners in identifying where these animals live.
- Learners colour the domestic animals.
- Class imitates the sounds of domestic animals.

Wild animals

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the wild animals in the pictures.
- b** colour the animals.

Source of material

- PlusOne Science and Technology ECD A Workbook page 25.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Crayons
- Play dough
- Model lion
- Model snake
- Model hippo
- Model elephant
- Chart/pictures showing wild animals

Suggested activities

- Learners sing a rhyme about wild animals.
- Class name the animals.
- Class identify the wild animals.
- Facilitator discusses the dangers posed by wild animals to both humans and domestic animals.
- Learners colour the wild animals only.
- Learners imitate the sounds of the wild animals only.

Animals and their young ones

Unit objectives

By the end of this lesson, learners should be able to:

- a** match each animal to its young one.
- b** identify the wild animals.

Source of material

- PlusOne Science and Technology ECD A Workbook page 26.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Play dough.
- Clay
- Crayons
- Model lions
- Model cow
- Model sheep
- Model cat
- Charts/pictures showing animals and their young ones.

Suggested activities

- Learners sing a rhyme about animals.
- Learners name the animals.
- Learners identify the baby animals.
- Learners imitate the sound of each animal class.
- Match each animal to its young one.

Animal habitats/shelter

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the shelter of a bee.
- b** colour the pictures.

Source of material

- PlusOne Science and Technology ECD A Workbook page 27.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus

Suggested teaching and learning materials

- Twigs
- Glue
- Grass
- Planks
- Model cow
- Model birds
- Model bees
- Model dog
- Play dough
- Crayons
- Charts/pictures showing animals and their shelters.

Suggested activities

- Learners sing a rhyme about animals.
- Learners name the animals and their shelters.
- Facilitator helps the learners make a kraal.
- Facilitator explains to the class why animals need shelter.
- Class matches the animal and its shelter.
- Class colours the animals.

Topic 4

Environmental awareness and conservation

Climate and weather

Unit objectives

By the end of this lesson, learners should be able to:

- a identify the object in the picture.
- b colour the object in the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 28.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Cardboard box
- Glue
- Chart/pictures showing a sun.
- Scissors
- Crayons

Suggested activities

- Learners sing a rhyme about the sun.
- Learners colour the picture of the sun class.
- Facilitator helps the learners in talking about the different weather conditions.

Climate and weather

Unit objectives

By the end of this lesson, learners should be able to:

- a tell what is happening in the picture.
- b colour the picture within the frame.

Source of material

- PlusOne Science and Technology ECD A Workbook page 29.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment
- Umbrella
- Water
- Hosepipe
- Crayons
- Chart/pictures showing a boy holding an umbrella on a rainy day.

Suggested activities

- Learners sing a rhyme about a rain.
- Learners name the weather condition shown.
- Facilitator explains the risk of playing outside when it is raining.
- Class what do we do on rainy days.
- Class discusses what happens when it rains.
- Learners colour the picture of a rainy day.

Climate and weather

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the weather conditions in each picture.
- b** colour the pictures showing weather conditions.

Source of material

- PlusOne Science and Technology ECD A Workbook page 30.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus

Suggested teaching and learning materials

- Outdoor environment
- Sunhat
- Umbrella
- Winter coats
- Crayons
- Charts/pictures showing various weather conditions and equipment for each condition.

Suggested activities

- Learners sing a rhyme about weather.
- Learners name the weather conditions from the pictures.
- Facilitator discusses with the class what you do during rainy days.
- Learners colour the picture showing rainy condition.
- Facilitator asks the learners the benefits of sun basking.
- Class matches the weather with the clothes/equipment.
- Class places a sticker of a boy who is feeling cold.

Climate and weather

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the item in the picture.
- b** colour the picture

Source of material

- PlusOne Science and Technology ECD A Workbook page 31.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Winter jacket
- Crayons
- Chart/pictures showing a winter coat.

Suggested activities

- Learners sing a rhyme about winter.
- Class colours the picture.
- Facilitator explains to the class what happens when they play in the cold without the proper clothing.
- Facilitator helps the learners in singing about different weather seasons.

Types of soil

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the different soil types.
- b** state where we can find each.

Source of material

- PlusOne Science and Technology ECD A Workbook page 32.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment
- Clay soil
- Sand soil
- Loam soil
- Charts/pictures showing different types of soil.

Suggested activities

- Learners sing a rhyme about soil.
- They name the type of soil.
- Learners say what we find in the soil.
- Facilitator supervises the learners collecting different soil samples from the science corner.
- Learners display the soil samples in plastics class.

The uses of soil

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what the woman is doing.
- b** colour the picture below.

Source of material

- PlusOne Science and Technology ECD A Workbook page 33.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Bricks
- Mud
- Water
- Plants
- Crayons
- Charts/pictures showing a builder and children planting plants.

Suggested activities

- Learners sing a rhyme.
- Learners tell a story from the pictures.
- Facilitator talk about the uses of soil with class.
- Learners colour the picture of the boy and girl planting trees.

The uses of soil

Unit objectives

By the end of this lesson, learners should be able to:

- identify what the grandmother is doing.
- colour the picture within the frame.

Source of material

- PlusOne Science and Technology ECD A Workbook page 34.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Clay
- Play dough
- Crayons
- Colours
- Chart/pictures of a grandmother making clay pots.

Suggested activities

- Learners sing a rhyme.
- Class say/sign what grandmother is doing.
- Learners talk about what grandmother is using to make clay pots.
- Learners discuss the other uses of soil with the facilitator.
- Learners colour the picture.

Sources of water

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the sources of water in the pictures.
- b** colour the well as illustrated.

Source of material

- PlusOne Science and Technology ECD A Workbook page 35.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Tap
- Cardboard box.
- Twigs
- Yarn
- Charts/pictures of a river, tap and a well.
- Crayons
- Model well.

Suggested activities

- Learners sing a rhyme about water.
- Facilitators discusses the benefits of water with the group.
- Class name the sources of water in the picture.
- Learners colour the pictures.

Properties of water

Unit objectives

By the end of this lesson, learners should be able to:

- a** Identify what is happening in the first picture.
- b** Imitate what the boy is doing.

Source of material

- PlusOne Science and Technology ECD A Workbook page 36.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Bond paper
- Jug
- Dish of water.
- Measuring cylinder.
- Paper boats.
- Crayons
- Charts/pictures showing the properties of water.

Suggested activities

- Learners sing a rhyme about water.
- Learners discuss what is happening in the pictures.
- In groups learners play different water games.
- Class names any water games they know.
- Learners colour their favourite picture.

Uses of water

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the at least 2 uses of water.
- a** colour the picture of the boy bathing.

Source of material

- PlusOne Science and Technology ECD A Workbook page 37.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Bucket of water.
- Crayons
- Dishes
- Chart/pictures showing various uses of water.

Suggested activities

- Learners sing a rhyme about water.
- Class discusses the pictures with each other.
- Class names the various uses of water at home.
- Facilitator makes the learners imitate the child bathing.
- Learners colour the pictures.

Uses of water

Unit objectives

By the end of this lesson, learners should be able to:

- a** water the garden.
- b** colour the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 38.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Garden can
- Crayons
- Outdoor environment.
- Chart/pictures of children watering a garden.

Suggested activities

- Learners sing a rhyme about water.
- Class discusses what the children are doing.
- Facilitator takes the children to water the garden at school.
- Class discusses water you use when watering the garden at home.
- Learners colour the picture.
- Facilitator explains to the class why we water plants.

Uses of water

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what the children are doing in the pictures.
- b** select their favourite picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 39.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Running water
- Pots
- Cups
- Soap
- Chart/pictures showing various uses of water.

Suggested activities

- Learners sing a rhyme about water.
- Learners name the uses of water shown in the pictures.

- Facilitator explains the importance of having water at school and home.
- Learners choose one picture to mimic.
- Facilitator discusses with the class how they use water at home and school.

Environmental conservation

Unit objectives

By the end of this lesson, learners should be able to:

- identify the activities in the pictures.
- plant and water trees.

Source of material

- Heritage Based Curriculum (HBC) Infant syllabus page.
- PlusOne Science and Technology ECD A Workbook page 40.

Suggested teaching and learning materials

- Outdoor environment.
- Trees
- Garden can.
- Mini shovel

Suggested activities

- Learners sing a rhyme.
- Learners explain what is happening in the pictures.
- Facilitator discusses the importance of trees with the class.
- Learners explain why we should grow trees.
- Class spot the differences in the pictures.

Environmental conservation by recycling

Unit objectives

By the end of this lesson, learners should be able to:

- identify what the children are doing.
- separate recyclable materials.

Source of material

- PlusOne Science and Technology ECD A Workbook page 41.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Dust bins.
- Plastics
- Bottles
- Paper
- Cardboard boxes
- Glass bottles
- Crayons
- Charts/pictures showing children sorting recyclable materials.

Suggested activities

- Learners sing a rhyme.
- Class discusses the picture with your friends.
- Learners name/identify waste materials that can be recycled.
- Facilitator discusses with the learners the importance of recycling things.
- Facilitator supervises the learners in separating recyclable materials in class.
- Learners colour the picture.

Ways of keeping the environment clean

Unit objectives

By the end of this lesson, learners should be able to:

- a** clean their environment.
- b** colour the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 42.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment.
- Broomstick.
- Rug
- Plastic bag
- Crayons
- Chart/pictures showing a boy and a girl cleaning the environment.

Suggested activities

- Learners sing a rhyme.
- Class discusses the picture in groups.

- Facilitator asks the learners why we clean the school.
- Class talks about the disposal of litter in the school.
- Facilitator discusses the benefits of having a clean environment.
- Learners in pairs, talk about the effects of a dirty environment.
- Learners colour the picture class.

Environmental conservation

Unit objectives

By the end of this lesson, learners should be able to:

- a** grow plants.
- b** care for the plants.

Source of material

- PlusOne Science and Technology ECD A Workbook page 43.
- Heritage Based Curriculum HBC Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor environment
- Seedlings
- Water
- Chart/pictures showing children planting plants.

Suggested activities

- Learners sing a rhyme.
- Class discusses what is happening in the picture.
- Facilitator explains the benefits of growing plants.
- Class with the help of the facilitator grow plants and care for them.
- Facilitator explains to the class what happens to plants if they are not taken care off.

Topic 5

Tools, equipment and implements

Everyday tools and implements (Household tools-kitchen utensils)

Unit objectives

By the end of this lesson, learners should be able to:

- a identify the kitchen utensils in the picture.
- b paste the cooking stick from the sticker page.

Source of material

- PlusOne Science and Technology ECD A Workbook page 44.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Spoons
- Cooking stick
- Plastic knife

Suggested activities

- Learners sing a rhyme.
- Class discusses what they see from the picture.
- Facilitator explains the dangers of using a knife unsupervised to the class.
- Learners paste a cooking stick on the correct space.

Everyday tools and equipment-Garden tools

Unit objectives

By the end of this lesson, learners should be able to:

- a identify the tools in the picture.
- b use the garden kettle to water plants.

Source of material

- PlusOne Science and Technology ECD A Workbook page 45.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Shovel
- Hoe
- Pitch fork
- Garden kettle
- Charts/pictures showing garden tools.

Suggested activities

- Learners sing a rhyme.
- Class names the garden tools in groups.
- Facilitator discusses the use of the tools with the class.
- Facilitator explains the risks associated with using some of these tools carelessly.
- Class pastes a sticker of shovel on the given space.

Tools

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the garden tools.
- b** pick their favourite tools.

Source of material

- PlusOne Science and Technology ECD A Workbook page 46.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Crayons
- Hoe
- Shovel
- Pickaxe
- Pitch fork
- Charts/pictures showing garden tools.

Suggested activities

- Learners sing a rhyme.
- Learners name the garden tools in the picture.
- Facilitator explains the risks associated with using some of these tools carelessly.
- Learners colour the pictures class.
- Learners say/sign the use of these tools.

Measuring devices

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the items in the pictures.
- b** name the animals in the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 47.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Measuring jug
- Tape measure
- Model elephant
- Model rabbit
- Crayons
- Outdoor environment
- Chart/pictures showing measuring devices.

Suggested activities

- Learners sing a rhyme.
- Facilitator asks the class what is heavier between the elephant and hare.
- Learners colour tools used for measuring volume in blue.
- Learners colour tools used for measuring height in red.

Digital devices

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify a television.
- b** name the use of ear buds.

Source of material

- PlusOne Science and Technology ECD A Workbook page 48.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Television
- Laptop
- Radio
- Cell phone
- Wrist watch
- Ear buds

Suggested activities

- Facilitator leads learners to sing a song about technology.
- Facilitator explains to the learners the uses of a laptop.
- Learners class name the digital tools.
- In pairs, learners pick out your favorite devices.

Digital devices

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the device in the picture.
- b** colour the picture within the frame.

Source of material

- PlusOne Science and Technology ECD A Workbook page 49.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Model computer
- Keyboard
- Mouse
- Crayons
- Charts/pictures showing a computer.

Suggested activities

- Learners give a recap about the previous lesson.
- Learners name/sign this digital device.
- Learners say/sign names of the parts.
- Facilitator explains the use of the computer to the learners.
- Learners colour the monitor and CPU.

Topic 6

Energy and fuels

Energy and fuels

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the item in the picture.
- b** draw the sun and colour it as illustrated.

Source of material

- PlusOne Science and Technology ECD A Workbook page 50.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Bond paper
- Art book/pad
- Crayons
- Pencils
- Charts/pictures showing a sun.

Suggested activities

- Facilitator leads the learners in singing a rhyme about the sun.
- Learners draw a picture of the sun as shown.
- Facilitator helps the learners describe the sun.
- Facilitator helps the class explain the energy we get from the sun.

Sources of energy

Unit objectives

By the end of this lesson, learners should be able to:

- a** name the three sources of energy in the picture.
- b** colour the pictures.

Source of material

- PlusOne Science and Technology ECD A Workbook page 51.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Coal
- Firewood
- Model gas cylinder
- Crayons
- Chart/pictures showing different sources of energy.

Suggested activities

- Learners sing a rhyme about sources of energy.
- Facilitator helps the learners discuss the pictures.
- Class talks about the sources of energy.
- Facilitator discusses the potential dangers associated with these sources of energy.
- Class discusses what to do when a gas stove burns out of control.
- Learners colour the pictures.

Topic 7

Disaster risk management and resilience

Dangers at home and school

Unit objectives

By the end of this lesson, learners should be able to:

- a identify the dangers in both pictures.
- b colour the picture of a boy falling from the stairs.

Source of material

- PlusOne Science and Technology ECD A Workbook page 52.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Model knife
- Plug
- Door step.
- Crayons
- Bucket of water.
- Chart/pictures showing various dangers at school and home.

Suggested activities

- Facilitator leads learners in a song about health hazards.
- Learners discuss what you see.
- Facilitator explains to the learners the dangers associated with poking electricity with anything.
- Class describes the dangers in the pictures.
- Facilitator discusses with the learners about the dangers that linger at home and school.
- Learners colour the pictures.

Dangers at school

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the dangers in the picture.
- b** colour the picture within the frame.

Source of material

- PlusOne Science and Technology ECD A Workbook page 53.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Outdoor play ground.
- Swing
- Bricks
- Crayons
- Chart/pictures showing children on a swing surrounded by bricks in a playground.

Suggested activities

- Learners sing a rhyme about playing.
- Class discusses what you see.
- Facilitator leads the discussion about the dangers found in a school play Centre.
- Learners suggest ways to overcome these dangers at a play Centre.
- Learners colour the picture class.

Safety and evacuation

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what is happening in the picture.
- b** colour the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 54.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Model house
- Matchsticks
- Bucket of water
- Bucket of sand
- Crayons
- Chart/pictures showing a burning house and people running away.

Suggested activities

- Learners sing “There’s fire in the mountain”.
- Learners discuss what is happening in the picture.
- Facilitator discusses with the class what they should do if there is a fire.
- Facilitator holds a mock fire drill with the learners.
- Learners colour the picture.

Emotional resilience

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what the girl is holding.
- b** mimic what the girl is doing.

Source of material

- PlusOne Science and Technology ECD A Workbook page 55.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Teddy bear
- Stuffed animals
- Chart/pictures showing a girl hugging a teddy bear.

Suggested activities

- Facilitator leads the learners in singing a soothing song.
- Class in groups, discusses what you see in the picture.
- Facilitator explains what is happening to the class.
- Learners discuss the importance of having stuffed animals.

Emotional resilience

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify what is going on in the picture.
- b** colour the picture.

Source of material

- PlusOne Science and Technology ECD A Workbook page 56.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Crayons
- Stuffed animals.
- Pictures of a father comforting a crying child.

Suggested activities

- Facilitator leads the class in singing a soothing song.
- Learner gives a recap of the previous lesson.
- Learners with the aid of the facilitator, tell a story from the picture.
- Facilitator talks about managing stressful moments with the class.
- Learners colour the picture class.

Topic 8

Educational technology and innovation

Everyday technology

Unit objectives

By the end of this lesson, learners should be able to:

- a name at least two items in the picture.
- b state the use of at least three items.

Source of material

- PlusOne Science and Technology ECD A Workbook page 57.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested teaching and learning materials

- Headphones
- Cellphone
- Decoder
- Remote control
- Ballpoint pen
- Pictures of digital tools.

Suggested activities

- Learners sing a song about technology.
- Facilitator discusses the importance of each everyday technology with the learners.
- Learners name and identify digital tools on the pictures.
- Learners discuss in pairs the use of each digital tool.

Everyday technology

Unit objectives

By the end of this lesson, learners should be able to:

- a identify the digital technologies in the picture.
- b paste the correct sticker on each slot.

Source of material

- PlusOne Science and Technology ECD A Workbook page 58.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested materials

- Smartphone
- Tablet
- Laptop
- Desktop
- Chart/pictures showing a smartphone, tablet, laptop and desktop computer.

Suggested activities

- Learners sing a song about technology.
- Learners discuss what they see in the picture.
- Learners paste stickers of a smartphone, tablet, laptop and desktop computer on the spaces above.
- Facilitator talks about ICT tools and toys.
- Facilitator discusses with the class the use of each digital tool.

Everyday technology

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the items in the picture.
- b** name at least two parts of the computer.

Source of material

- PlusOne Science and Technology ECD A Workbook page 59.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested materials

- Monitor
- Mouse
- CPU
- Keyboard
- Chart/pictures showing parts of a computer.

Suggested activities

- Learners give a recap on the previous lesson.
- Facilitator discusses the uses of a computer with the class.
- Facilitator talks about ICT tools and toys.
- Learners name the computer parts.
- Learners draw a CPU.

Everyday technology

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the tool shown.
- b** join the dots.

Source of material

- PlusOne Science and Technology ECD A Workbook page 60
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus.

Suggested materials

- Pencils
- Crayons
- Mouse
- Chart/pictures showing a mouse.

Suggested activities

- Learners give a recap on the previous lesson.
- Learners name the digital tool shown.
- Facilitator demonstrates to the learners how you hold the tool.
- Facilitator explains how the tool work and the other components needed for it to work.
- Learners join the dots to complete the picture.
- Learners colour the mouse black.

Technology safety

Unit objectives

By the end of this lesson, learners should be able to:

- a** identify the tool on the first picture.
- b** colour the pictures within the frame.

Source of material

- PlusOne Science and Technology ECD A Workbook page 61.
- Heritage Based Curriculum (HBC) Science and Technology Infant syllabus

Suggested materials

- Smartphone
- Television
- Remote control
- Crayons
- Chart/pictures of a smartphone and a woman controlling the TV for her child.

Suggested activities

- Learners give a recap about the previous lesson.
- Learners discusses what is happening in the pictures.
- Facilitator talks about how learners can be safe on the internet.
- Facilitator discuss the various risks that can be caused by unsafe surfing of the internet.
- Learners discuss how they are protected at home from harmful programs at home.
- Learners colour the pictures class.