

Teaching Suggestions for Kids Shine Science Book 4 and Activity Book 4

Topic	Around Town - Wheels
Content Standard	SA 2.0 Science process skills
Learning Standard	SA 2.6.1 State observations made through works or verbally.
Integrated Strands	PM 12.1.1, FK 2.2.1
Teaching Materials	Book 4, Activity Book 4, picture cards of a wheel, a hula hoop and a square cardboard box.

Suggested Activities

Book

- Show a picture card of a wheel. Ask the children if they know the name for the shape of the wheel. Get them to think of other things that have wheels, e.g. van, car, trolley, bicycle, etc. Tell the children that wheels help to move things easily.
- Prepare a hula hoop and a square cardboard box. Divide the children into 2 groups. One group will be given the hula hoop. Another group will be given the square cardboard box.
- Line the two groups of children at the same starting point. The group with the hula hoop will take turns to roll the hoop. The group with the box will take turn to push it. The fastest group to finish the race wins.
- Guide the children in doing the exercise on page 2 of Book 4.

Activity Book

- Guide the children in doing the exercise worksheet on page 2 of Activity Book 4.

Topic	Around Town - Fuel
Content Standard	SA 2.0 Science process skills
Learning Standard	SA 2.6.1 State observations made through works or verbally.
Integrated Strand	KE 3.1.1
Teaching Materials	Book 4, Activity Book 4, picture cards of vehicles (car, motorcycle, aeroplane, ship, helicopter, tricycle), paper, pencils, two boxes

Suggested Activities

Book

- Tell the children that most vehicles need fuel to move.
- Show picture cards of car, motorcycle, aeroplane, ship, helicopter and tricycle. Ask the children to name the vehicles.
- Prepare two empty boxes. Label one box 'Fuel', and another box, 'Without fuel'. Ask the children to sort the vehicle picture cards by placing each in the correct box.
- Give each child a sheet of paper. Ask the children to draw one of their favourite vehicles that needs fuel and one of their favourite vehicles that does not need fuel.
- Guide the children in doing the exercise on page 3 of Book 4.

Activity Book

- Guide the children in doing the exercise worksheet on page 3 of Activity Book 4.

Topic	Around Town - Light
Content Standard	SA 5.0 Investigation of the physical world
Learning Standards	SA 5.1.1 State various sources of light. SA 5.1.3 Investigate the uses of sunlight in one's daily life.
Integrated Strand	FK 2.2.1
Teaching Materials	Book 4, Activity Book 4, a big cardboard box, shape cut-outs, torchlight
Suggested Activities Book <ul style="list-style-type: none"> • Ask the children how they feel when the room is dark, e.g. "Do you feel uneasy? Are you able to see things clearly?" • Prepare a large cardboard box that can fit a child inside. Stick some shape cut-outs on the inner sides of the cardboard box. Ask a child to crawl inside the box to find the shape cut-outs on the sides of the cardboard box. Close the flaps of the box and do not give the child a torchlight. After around 30 seconds, the child comes out of the box and tells how many shapes he has found. • Ask another child to crawl inside the box with a torchlight. Ask him to find the shape cut-outs in the box. Ask him to tell how many he has found at the end of 30 seconds. • Ask the children to tell why light is important to us. • Guide the children in doing the exercise on page 4 of Book 4. Activity Book <ul style="list-style-type: none"> • Guide the children in doing the exercise on page 4 of Activity Book 4. 	

Topic	Around Town - Shadows
Content Standards	SA 2.0 Science process skills SA 5.0 Investigate of the physical world
Learning Standards	SA 2.6.1 State observations made through works or verbally. SA 5.1.1 State various sources of lights. SA 5.1.2 Record observations on shadows.
Integrated Strands	BI 1.2 .4, FK 1.1.1
Teaching Materials	Book 4, Activity Book 4, a torchlight
Suggested Activities Book <ul style="list-style-type: none"> • Bring the children to a room and prepare a torchlight. Switch off all the lights in the room. Then turn on the torchlight and shine it on the whiteboard. • Use the hands to make shadows of animals, e.g. rabbit, bird, crocodile, cow, snail, crab, etc. Ask the children to look at the shadows and name the matching animals. • Teach the children to make shadow puppets with their hands. • Guide the children in doing the exercise on page 5 of Book 4. • Refresh the children's memory of what they have learnt by completing the revision exercise on page 6 of Book 4. Activity Book <ul style="list-style-type: none"> • Guide the children in doing the exercises on pages 5 and 6 of Activity Book 4. 	

Topic	Going Shopping - Metal
Content Standard	SA 2.0 Science process skills
Learning Standards	SA 2.2.3 Group objects according to identified characteristics. SA 2.6.1 State observations made through works or verbally.
Integrated Strands	BI 1.2 .4, PM 9.1.2
Teaching Materials	Book 4, Activity Book 4, a metal fork, a spoon, a canned drink, a pan and canned food, an empty box, a plastic bottle, a plastic cup, a towel, a pencil, an eraser, two hula hoops

Suggested Activities

Book

- Prepare a metal fork, a spoon, a canned drink, a pan and canned food. Ask the children to touch and feel each of them. Ask them, “How does each feel? Is it hard or soft? Can you tell what they are made of?”
- Prepare an empty box. Mix up the metal things above with a plastic bottle, a plastic cup, a towel, a pencil and an eraser. Put all the things inside the box. Prepare two hula hoops. One hula hoop is for the things made of metal. Another hula hoop is for the non-metallic things.
- Get the children to sort the things into metallic and non-metallic objects by placing them in the correct hula hoops.
- Get the children to apply Higher Order Thinking Skills (HOTS) by completing the exercise in the book. Get them to name some things that are made of metal (e.g. key, pot, ring, etc). The children can give any suitable answers.
- Guide the children in doing the exercise on page 7 of Book 4.

Activity Book

- Guide the children in doing the exercise worksheet on page 7 of Activity Book 4..

Topic	Going Shopping - Wood and glass
Content Standard	SA 2.0 Science process skills
Learning Standards	SA 2.2.3 Group objects according to identified characteristics. SA 2.6.1 State observations made through works or verbally.
Integrated Strands	BI 1.2 .4, KE 3.1.1, FK 5.3.1
Teaching Materials	Book 4, Activity Book 4, paper, pencil, chopsticks, wooden blocks, a video clip displaying the process of making paper , a glass jar