



Fun Math

Teacher's Manual A



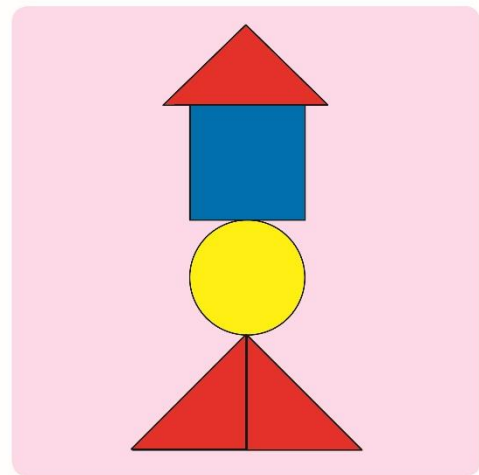
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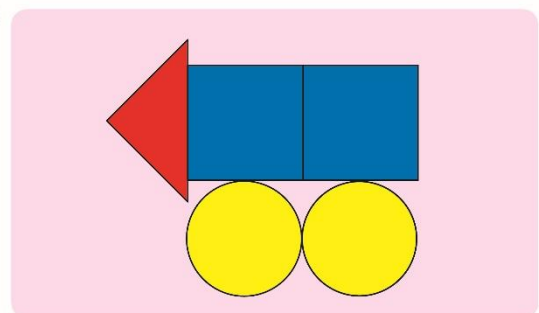
Look! This dog house is made from a rocket! Take out the plastic shapes, and match them with the uncolored shapes. Then color it with the matching color.



2



3



2

Class		Teacher	
Unit	A1-1	Topics	Learning Shapes

Manipulatives: Plastic shapes

Learning Activities

1. Guide students to take out the plastic shapes from their Math Box. Tell student to pick one from each shape: a triangle, a circle, and a square.
2. Hold a triangle card, touch the three points and sides of the card. Say, "This card is pointed. It's a triangle." Ask students to pick up the plastic shape that is the same shape as the card.
3. Repeat step 2. Introduce the other two shapes.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

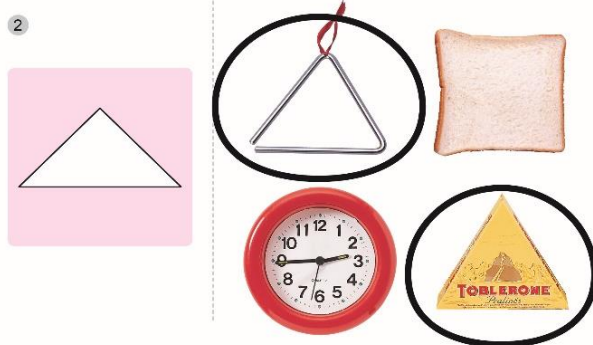
Extended Activities

Shape matching:

1. Place one of each plastic shape on the table. Keep the rest of the plastic shapes into a mystery box.
2. Each student takes turns to draw a plastic shape from the mystery box, and then says out the name of the shape.
3. Guide the student to place the plastic shape next to the same plastic shapes that is on the table.



Match and circle. Match the plastic shapes with the shape on the left. Then circle objects that are the same shape as the plastic shapes.



3



4

Class		Teacher	
Unit	A1-2	Topics	Learning Shapes

Manipulatives: Plastic shapes

Learning Activities

1. Review the shapes (triangle, square, and circle) with the plastic shapes.
2. Cover the plastic shapes with a mat.
3. Ask one student to draw a shape from beneath the mat and say out the name of the shape.
4. Ask the student to find an object in the classroom that has the same shape as the drawn shape (or ask the student to name some objects that resemble this shape.)
5. Have students take turns to repeat step 3 and 4. Guide students to recall the shapes of objects that they see in their daily life.
6. Ask students to take out one plastic shape of each shape from the Math Box.
7. Teacher shows a real object (for example, a circle shape clock), and asks students to find the plastic shape that matches the shape of that object.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

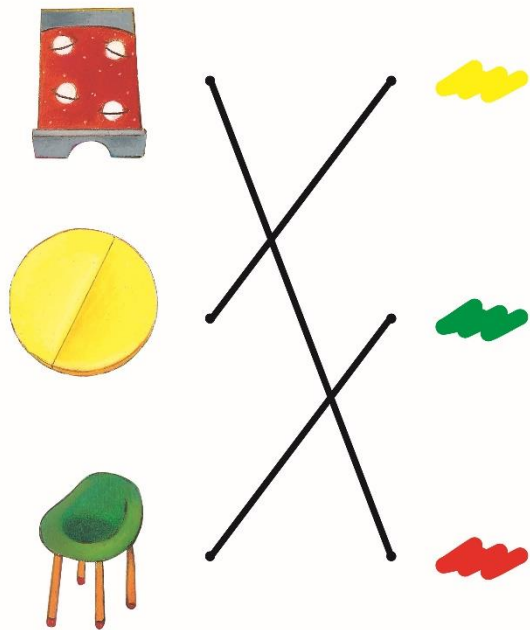
Extended Activities

We are a family:

1. Use tape to create big triangles, circles, and squares on the floor.
2. Play music while students are walking around.
3. Stop the music, and name one shape. Students quickly get into that shape.

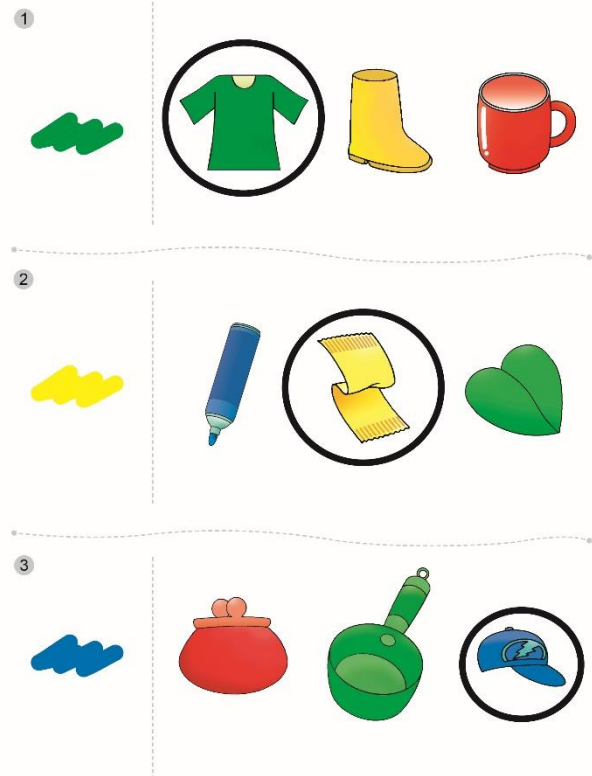


Look at the furniture pieces, and match them with the same colors.



5

Look and circle. Circle the item from the right with the matching color on the left.

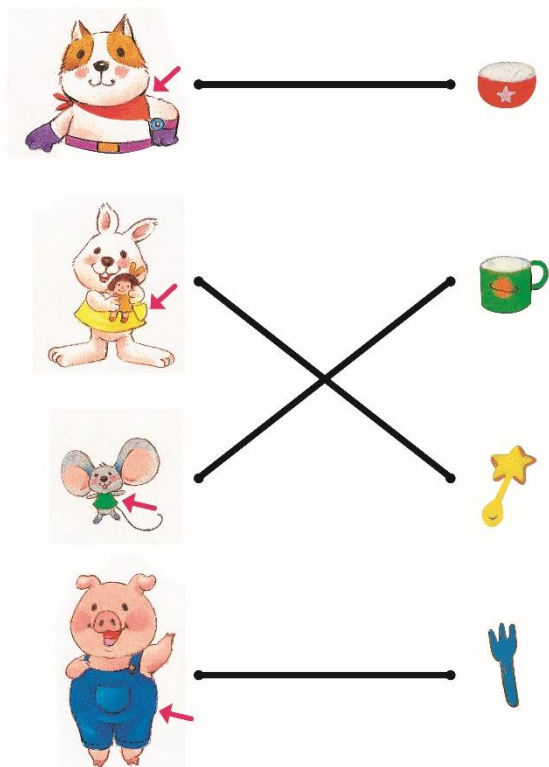


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Class		Teacher	
Unit	A1-3	Topic	Learning Colors
Manipulatives: Plastic shapes			
Learning Activities - Review colors with colored paper: red, yellow, blue and green. - Pick one color, and then ask students to observe if any furniture or object around are related to this color. - Show a real object (for example, a red cup), and ask students to point at their own plastic shapes that match the color of that object.			
Student Book Activities Guide students to complete the practice using the crayons.			
Extended Activities			
Delivery man: - Prepare four boxes. Mark the boxes with colored paper of red, yellow, blue and green respectively. - Prepare some objects of different colors at the corners of the classroom. - Have four students hold the boxes and walk around. Tell them to find objects that match their boxes and put the objects in the boxes. - Students take turns to be the delivery man.			

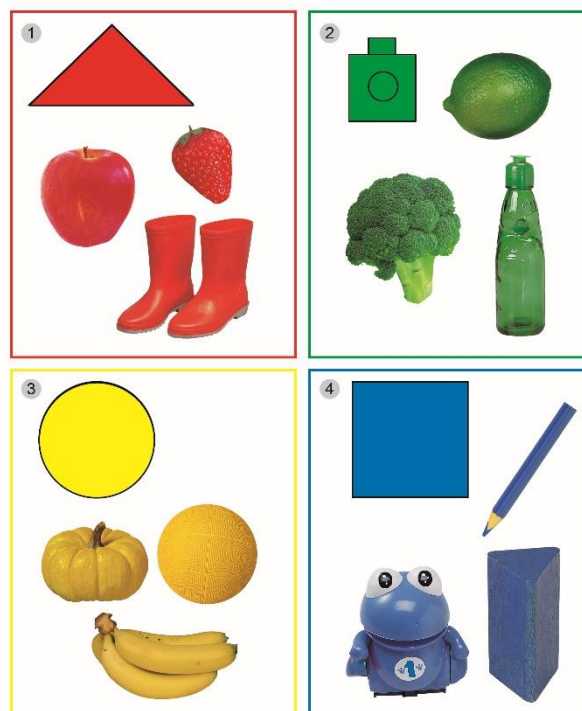


Time for lunch! Match the color of the clothes to that of the matching tableware.



7

The objects in the group are in the same color. Please take out your plastic shapes and match the uncolored shapes. Then color the shape in the matching color.



8

Class		Teacher	
Unit	A1-4	Topic	Learning Colors
Manipulatives: Plastic shapes, counting blocks			
Learning Activities 1. Show some pictures of people. 2. Ask students to observe these pictures and find out who has red in his/her clothes. Continue with the other colors. 3. Ask students to observe and tell the colors of their own clothes. 4. Name one fruit, and ask students to say the color of it. For example, strawberries are red. Encourage students to think about what other fruits or vegetables that are also red.			
Student Book Activities Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
Big wind blows: 1. Place some chairs in the middle of the classroom. One chair for each student, minus one. 2. Pick one student to be "it". The student says, "The big wind blows the person who's dressing in ____." Those who are dressing in this color must stand up and quickly find a new seat. 3. Whoever doesn't have a seat becomes "it".			

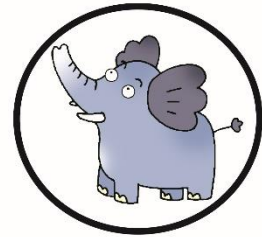


Compare the objects in each pair. Please circle the smaller one.

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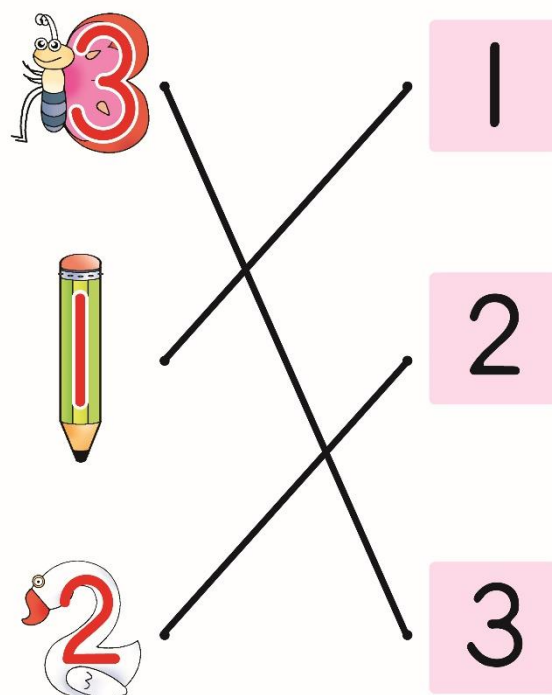
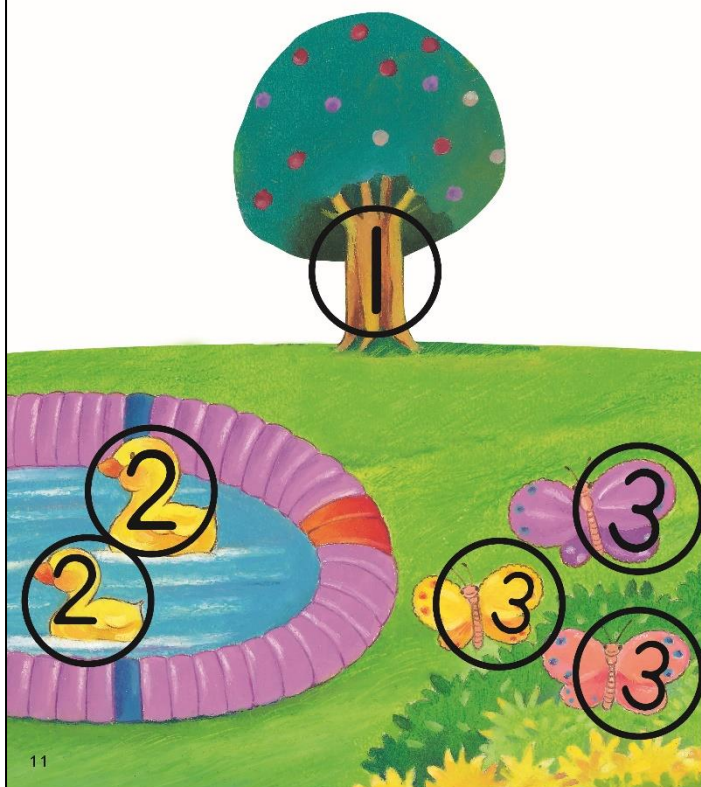


Class		Teacher	
Unit	A1-5	Topic	Comparing 2 Objects
Manipulatives: Plastic shapes			
Learning Activities			
1. Prepare some pairs of objects of different sizes. Ask students to point out the bigger one of each pair, and then ask the them to point out the smaller one.			
2. Cut out different sizes of squares from colored paper. Give one square to each student.			
3. Ask students to take out their square plastic shapes. Compare the size of the paper square and the plastic square.			
Student Book Activities			
Guide students to complete the practice using the crayons.			
Extended Activities			
Shooting balls:			
1. Prepare one big and one small box.			
2. Give each student a ball. Students take turns to shoot the balls into the big or small box according to the teacher's instruction.			



Numbers 1 to 3 are hidden in this picture. Take out your number cards and place them on the hidden numbers. Then circle all the hidden numbers.

Match the pictures with hidden numbers to the matching numbers.

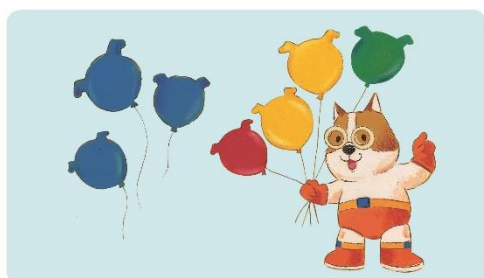


Class		Teacher	
Unit	A1-6	Topic	Learning Numbers 1-3
Manipulatives: Number cards			
Learning Activities 1. Ask students to take out their number cards. 2. Guide students to observe the shapes of the numbers. (Which number looks like a stick? Which number looks like a duck? Which number looks like the wings of a butterfly?) Student Book Activities Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
We are a pair: 1. Ask each student to pick a number card from 1 to 3. Students keep their cards in their hands and should not show to the others. 2. Ask two students to come up to the front. The two students show their cards when teacher counts to three. If the two have the same number, they pass and stay with the teacher. If not, they have to go back to their seats. 3. Continue asking students to come up in pairs.			



Count the number of balloons in different colors. Then circle the matching number.

Please take out the number cards, and place them on the pictures of clothes. Then match the cards to the pants that has the same number of dots.

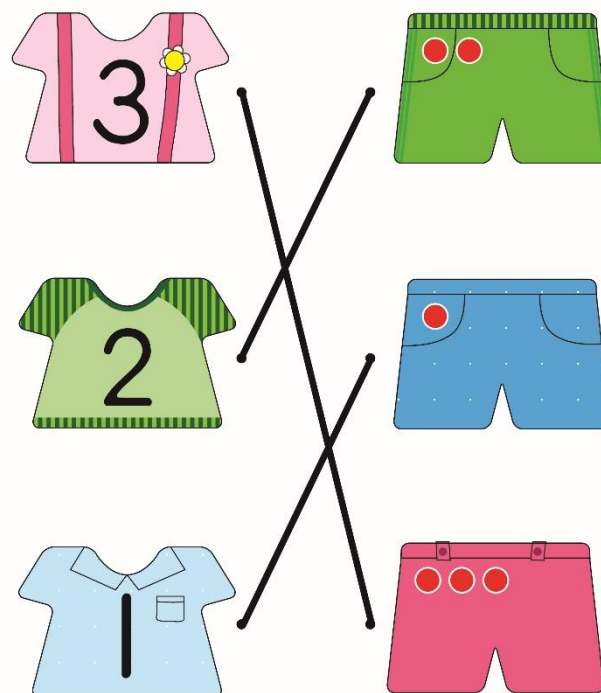


1  ① 2 3

2  1 ② 3

3  1 2 ③

13



14

Class		Teacher	
Unit	A1-7	Topic	Counting 1-3

Manipulatives: Number cards

Learning Activities

- Write 1, 2, 3 on the whiteboard.
- Draw a circle below number 1 and say, "One circle." Draw two circles below number 2 and says, "Now we have two circles." Continue with number 3.
- Guide students to recognize the numbers, and then count the circles.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

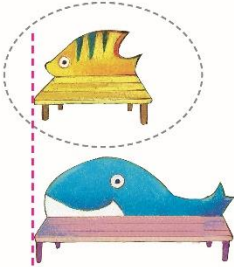
Extended Activities

Animal fun:

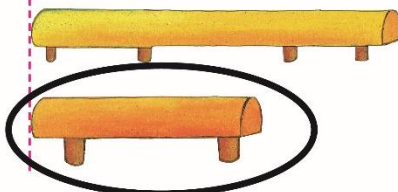
- Pick one student to be the leader.
- The leader randomly chooses one student, and asks him/her to act out the leader's command. For example, when the leader says "Doggy, three." The student has to bark three times. The leader gives three different commands. If the student does them all correctly, he/she will become the next leader.
- Continue the game until each student has a turn being a leader or a performer.

What can you see in a park? Look at each pair and circle the shorter one.

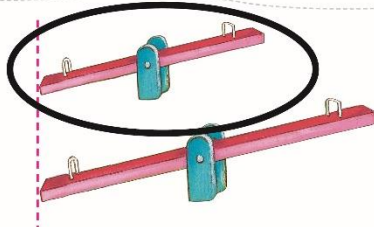
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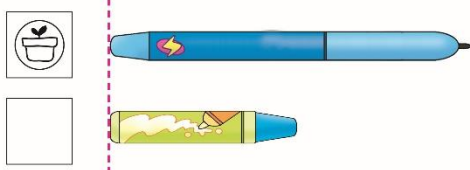
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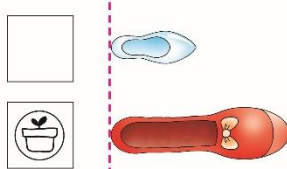
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Look at each pair and stamp in the ☐ of the longer one.

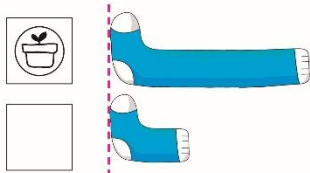
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2



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16

Class		Teacher	
Unit	A1-8	Topic	Comparison of 2 Objects

Manipulatives: Counting blocks

Learning Activities

1. Point out some objects in the classroom, and guide students to observe the length of these objects.
2. Ask students to take out some counting blocks from the Math Box.
3. Each student put together his/her blocks to make a long stick.
4. Compare the length of the sticks.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

Extended Activities

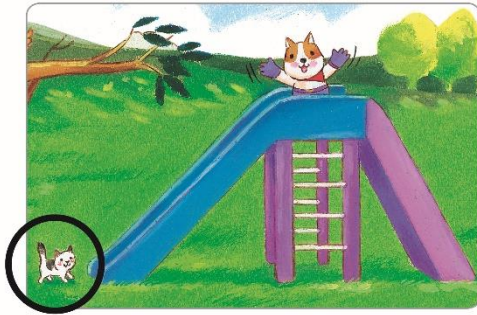
Line up:

1. Tape two long lines on the floor.
2. Have two students come up with their counting blocks. Each student put his/her blocks together to make a long stick along the line.
3. When time's up, compare the length of the sticks.
4. Students take turns to compete or practice with a partner.

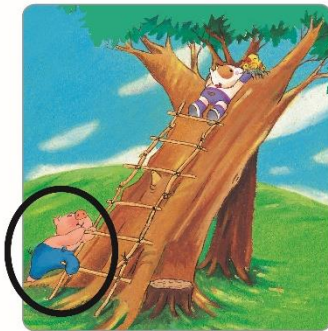


There are two animals in each picture. Circle the one at the bottom of the picture.

1



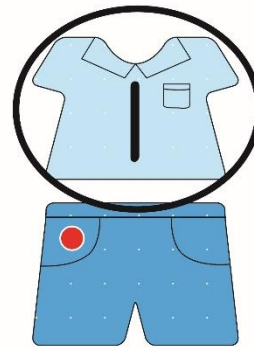
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17

Place the number cards on the matching pictures. Then draw around the cards that are on top of the pictures.

1



2



18

Class		Teacher	
Unit	A1-9	Topics	Positions: Top/Bottom
Manipulatives: Number cards			
Learning Activities			
1. Draw a big slide on the whiteboard. Place one magnet on the slide and say, "The magnet is on the top of the slide." Move the magnet all the way down the slide and say, "The magnet is now at the bottom of the slide." 2. Have students take turns to come up to move the magnet according to the teacher's instruction. 3. Place some magnets on the top and some at the bottom of the slide. Ask students to count the magnets that are on the top and at the bottom of the slide.			
Student Book Activities			
Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
Teacher Says:			
1. Explain to students the rules of the game "Teacher Says". 2. Give commands such as "Put your hands on the top of your head." "Point to the bottom of your shoes."			



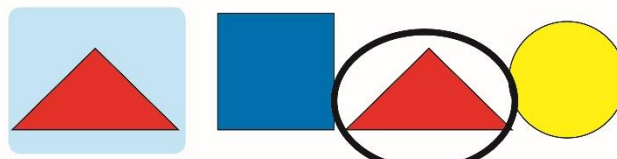
There are many flowers in the garden. Circle the flower that matches the picture on the left.

Place the plastic shapes on the matching positions. Then circle the shape that matches the plastic shapes.

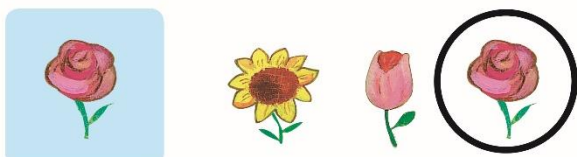
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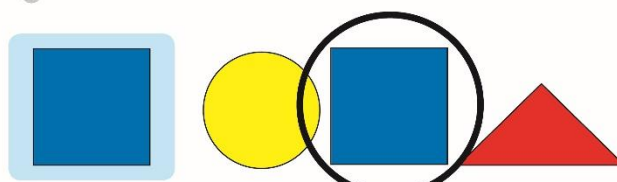
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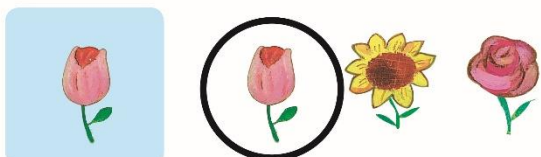
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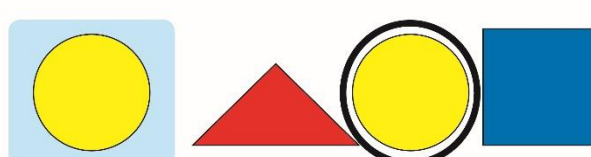
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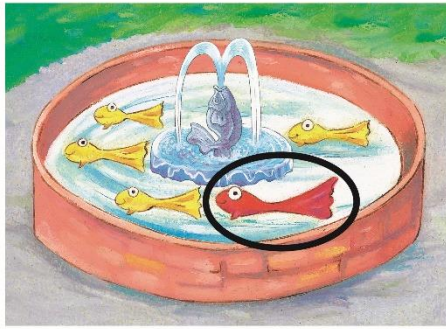


Class		Teacher	
Unit	A1-10	Topic	Telling the Differences
Manipulatives: Plastic shapes			
Learning Activities			
1. Mix three groups of different color balls in a box.			
2. Pick one ball from the box, and then ask a student to pick another ball that is the same color as the first ball.			
3. If the student is correct, he/she can pick a ball and ask another student to come up and find the same color ball.			
Student Book Activities			
Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
Treasure hunting:			
1. Prepare some pairs of objects. Take one from each pair, and place them on the table. Put the rest of the objects into a in a transparent jar.			
2. Randomly pick one object from the table, and ask a student to find the identical object in the jar. Show the two objects to the whole class and compare these two objects.			
3. Students take turns to do the treasure hunting.			

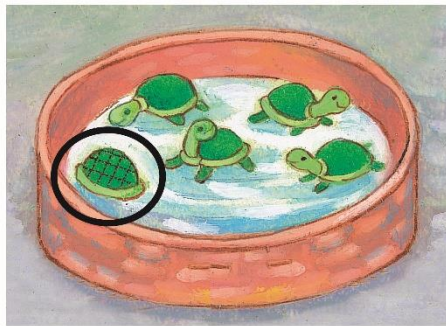


Which one looks different? Circle the odd one in each picture.

1

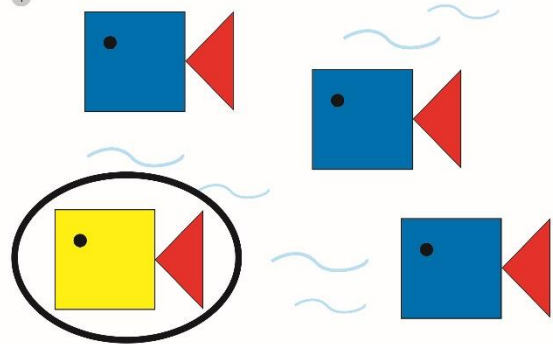


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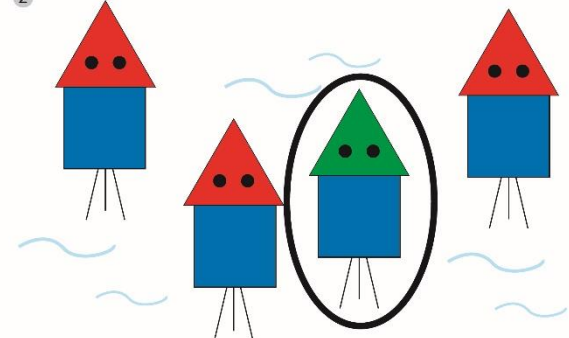


Circle the odd one in each group.

1



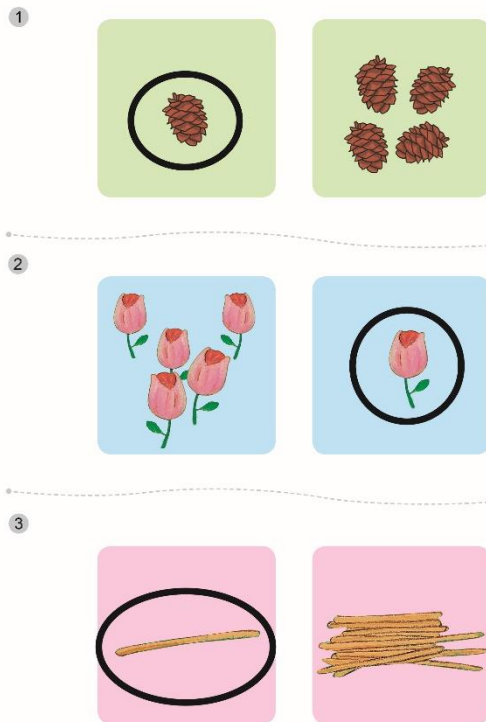
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Class		Teacher	
Unit	A1-11	Topic	Telling the Differences
Manipulatives: Plastic shapes			
Learning Activities 1. Cut out some shapes from colored paper. For example, three triangles and a circle. Ask students to find the odd one. 2. Ask students to take out a circle and a square plastic shape. Guide students to put the shapes together to make different figures. 3. Students observe other students' figures, and discuss if their figures are the same or different.			
Student Book Activities Guide students to complete the practice using the crayons.			
Extended Activities Find the odd: 1. Ask three students to stand in the front of the classroom. 2. The three students act out the teacher's commands. For example, "Put your hands on your head, sit down, raise your hands." 3. The rest of the students be the judges, and see who's not acting out correctly.			

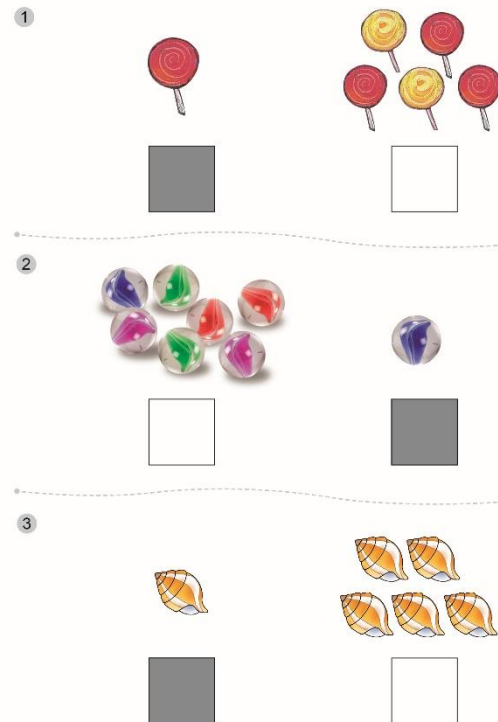


Circle the picture with only one object.



23

Color the □ with only one object.



24

Class		Teacher	
Unit	A1-12	Topic	One and Many
Manipulatives: None			
Learning Activities - Show a triangle and say, "I have a triangle." Take out some more triangles one after one and say, "Here is another triangle, one more, another triangle, two more...Now I have many triangles." - Explain to students what is "one" and "many". - Draw two big frames on the whiteboard. - Draw a shape in one frame, and some shapes in another frame. Guide students to tell which frame has only one shape, and which one has many shapes.			
Student Book Activities Guide students to complete the practice using the crayons.			
Extended Activities			
Starry night: - Prepare paper and markers for the class. - Tell students "The night sky is so pretty. There is one moon and many little stars." - Ask students to draw one moon and many stars. - Variation: There is a sun and many clouds in the sky.			



Which side has more? Please stamp in the ☐.

1

☐

☐

2

☐

☐

3

☐

☐

There is a counting block on the left. Please roll the dice to get more than 1 dot. Then stamp on the plate according to the number of dots you get.

1

2

* Please roll the dice to get more than 1 dot.

Class		Teacher	
Unit	A1-13	Topic	One and Many

Manipulatives: Paper die, stamp

Learning Activities

1. Draw a big blue circle and a big red circle on the whiteboard.
2. Draw a star in the blue circle, and a flower in the red circle. Tell students "There is one object in the blue circle, and one object in the red circle. Both have the same number of objects."
3. Draw an apple, a tree, a bird, and a butterfly in the blue circle. Tell students "There are many objects in the blue circle, but only one object in the red circle."
4. Erase everything. Draw a black dot, and then roll a paper die. Ask students to compare the numbers of the dots on the whiteboard and on the surface of the die. Which one has more dots?

Student Book Activities

Guide students to complete the practice using the manipulatives and the crayons.

Extended Activities

Listen and hop:

1. Tell students "When you hear the bell rings once, please hop once. When you hear the drum, please keep hopping."
2. Guide students to make a big circle.
3. Make sounds with the bell and the drum. Students hop according to the sounds.

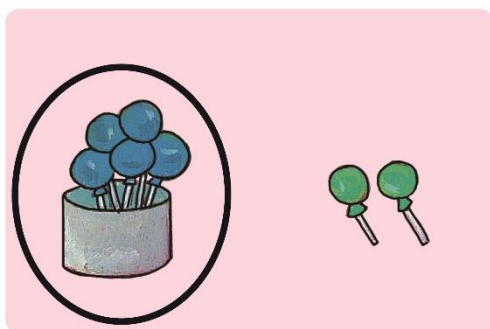


What is the color of the lollipops that are inside the can? Please circle these lollipops.

1



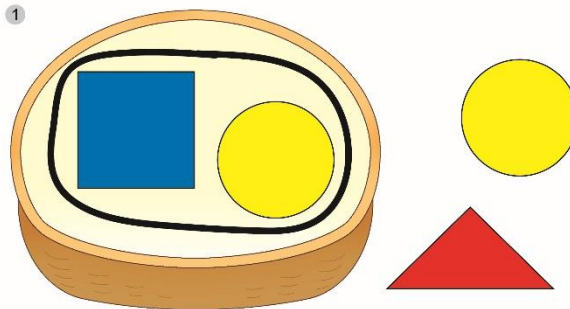
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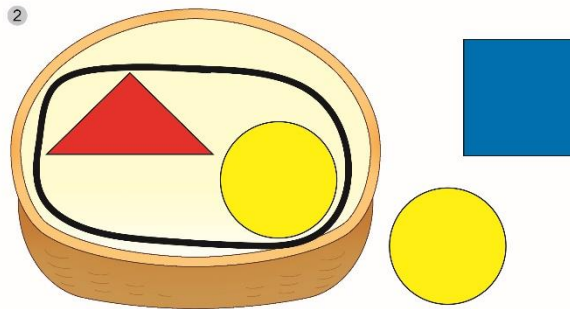
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Place the plastic shapes on the matching positions in the basket. Then circle the shape on the right that matches the plastic shapes.

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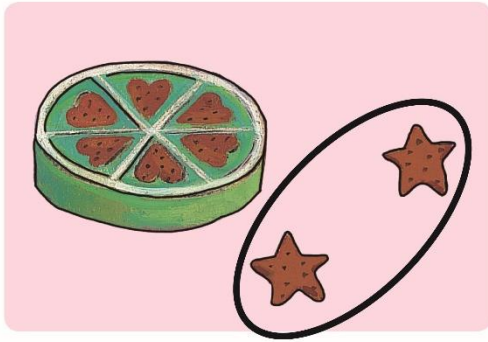
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Class		Teacher	
Unit	A1-14	Topic	Positions: Inside/Outside
Manipulatives: Plastic shapes			
Learning Activities			
1. Prepare some animal pictures. Draw a big circle on the whiteboard and say "This is a pool. It's very hot today. The animals want to play in the pool."			
2. Move the animals one by one into the circle. Leave two animals outside of the circle.			
3. Ask students "Who's outside the pool? Who's inside the pool?" Encourage students to come up and help move the animals into the pool.			
4. Take out an empty box and some plastic shapes. Have students take turns to place a shape in the box according to the teacher's instruction.			
5. Ask students what shapes are inside or outside of the box.			
Student Book Activities			
Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
Tossing game:			
1. Place a basket in the middle of the classroom.			
2. Students line up, and take turns to toss five balls into the basket.			
3. After each try, count how many balls are inside and how many are outside of the basket.			

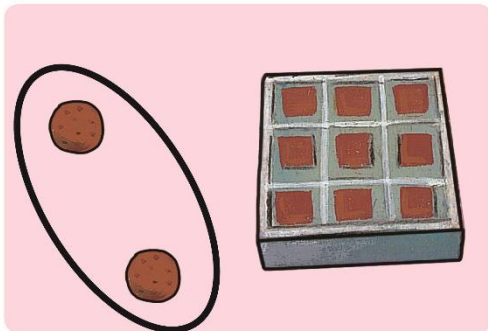


What is the shape of the cookies that are outside the box? Please circle these cookies.

1

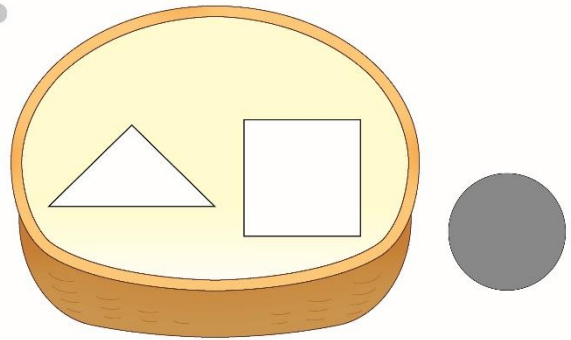


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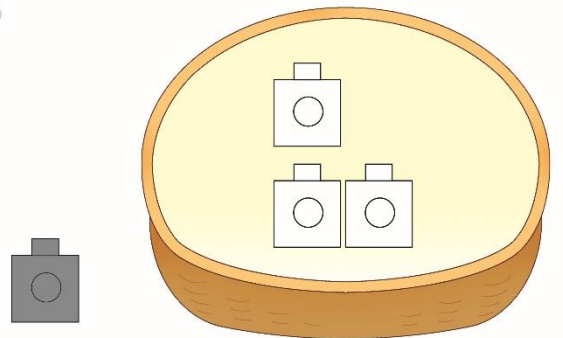


Place the plastic shapes and the counting blocks on the matching positions in the basket. Then color the shapes or blocks outside the basket.

1



2



Class		Teacher	
Unit	A1-15	Topic	Positions: Inside/Outside
Manipulatives: Plastic shapes, counting blocks			
Learning Activities			
1. Prepare some paper squares of different colors. Draw a bucket on the whiteboard.			
2. Teacher says "I have a red, a yellow, a blue, and a green square. Now I'm putting the red and the yellow square into the bucket."			
3. Ask students "what's outside the bucket? What's inside the bucket?"			
4. Empty the bucket and repeat the practice.			
5. Students take out their plastic shapes from the Math Box according to the teacher's instructions.			
6. Ask students what shapes remain inside the Math Box.			
Student Book Activities			
Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
The lucky one:			
1. Tape a big square on the floor. All students get inside the square.			
2. Pair students up to play rock, paper, scissors. The winners can stay inside the square.			
3. Students inside the square continue to play the game until there's only one left. The final winner is the lucky student of the day.			



Look and match. Find the objects for . Then draw a line to the correct answer.

1

2

31

Place the plastic shapes on the pattern below. Find the shape for and color the with correct color.

1

2

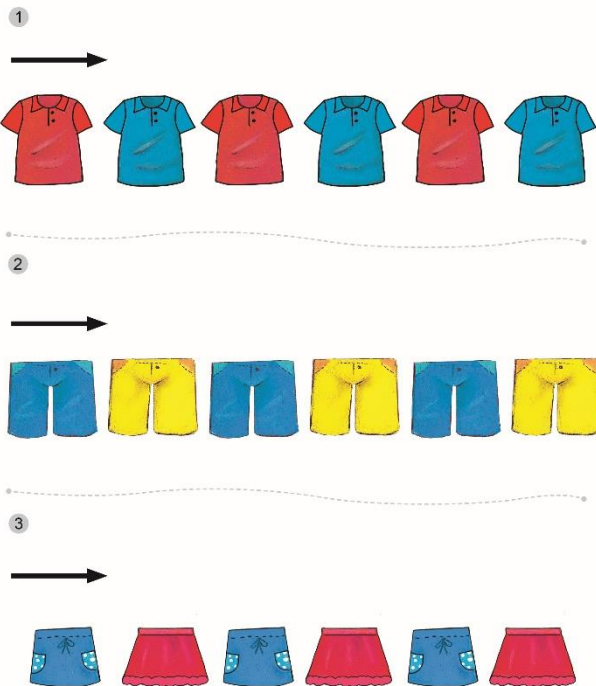
3

32

Class		Teacher	
Unit	A1-16	Topic	Repeated Pattern of 2 Objects
Manipulatives: Plastic shapes			
Learning Activities 1. Draw 6 T-shirts in a row on the whiteboard. The T-shirts are red, blue, red, blue, red, blue. 2. Ask students what color should the next T-shirt be? 3. Draw some shapes in a row on the whiteboard, and say out the names of the shapes while drawing. "Square, circle, square, circle, square, circle. What's next?" keep drawing and asking. 4. Pair students up and tell them to take out their plastic shapes. Two students work together to line up the shapes in a row according to the teacher's instructions. (Red, blue, red, blue, red, blue.)			
Student Book Activities Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities Beautiful necklaces: 1. Prepare two different colors of straws that have been cut up. 2. Give each student a string. 3. Guide students to make necklaces by stringing the straws in a repeated pattern.			

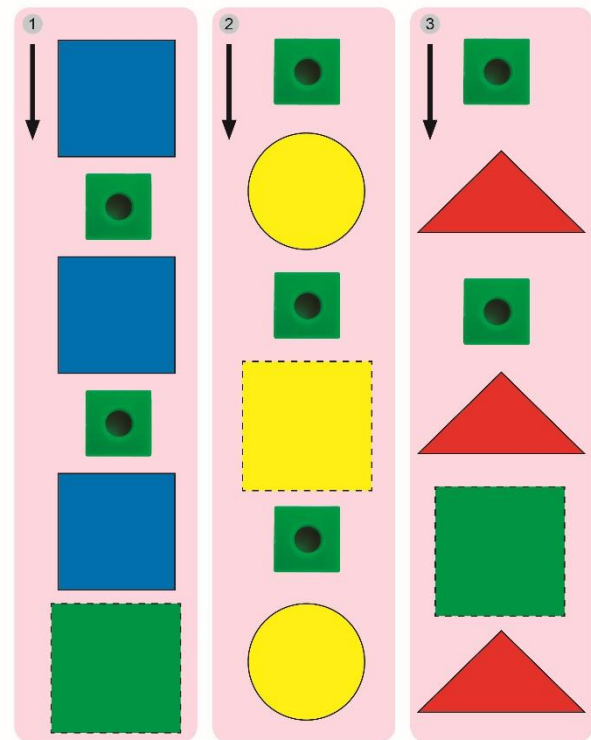


Look for the pattern in each row of clothes. Then color the blank clothes with the matching color.



33

Place the plastic shapes and the counting blocks on the pattern below. What's the missing one? Please color it with correct color.

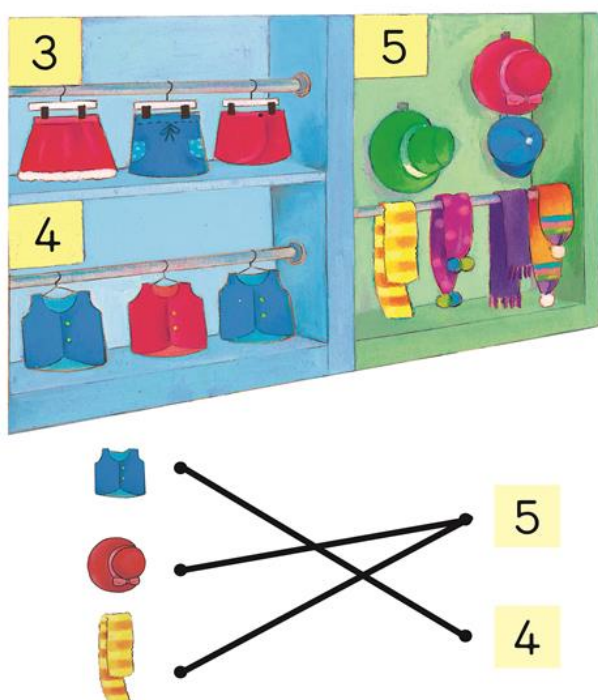


34

Class		Teacher	
Unit	A1-17	Topic	Repeated Pattern of 2 Objects
Manipulatives: Plastic shapes, counting blocks			
Learning Activities			
1. Place the number cards in a row (shirt, pants, shirt, pants, shirt, pants.) Ask students what the next card is.			
2. Have students take out their counting blocks and plastic shapes.			
3. Students line up their blocks and shapes according to the teacher's instruction: block, circle, block, circle, block, circle, block. Ask students to hold the next object in their hands. Checks if every student has the correct answer.			
Student Book Activities			
Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
Rhythm game:			
1. Demonstrate how to make a rhythm with the music instruments. For example, hit the drum once and shake the rattles twice. Students win the game by correctly repeating the rhythm five times or more.			
2. Adjust the difficulty by adding more patterns into the rhythm.			

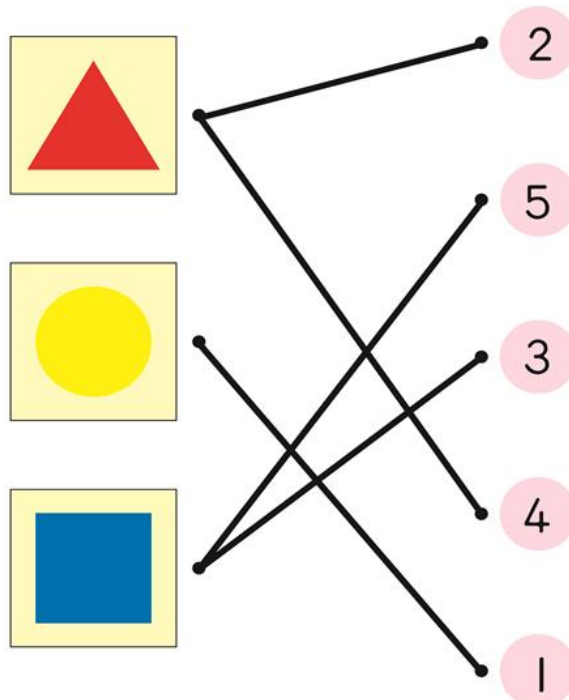


The dog wants to buy a vest, a hat, and a scarf. What are the shelf numbers of these items? Please match the items with the shelf numbers.



1

Take out the dice and look at each face. Find out the number of each face according to the shapes. Then match the shapes to the numbers.



2

Class		Teacher	
Unit	A2-1	Topic	Numbers 1-5

Manipulatives: Paper die

Learning Activities

- Write down 1, 2, 3, 4, and 5 on the whiteboard. Guide students to observe the shapes of the numbers.
- Show the number cards and say "There is a tree in the park. The straight trunk is like the shape of number 1. There is a duck swimming in the pond. Its long curve neck is like the shape of number 2. A butterfly is flying. Its wings look like the shape of number 3. A toy sailboat is in the pond. The sail is like the shape of number 4. A boy is picnicking at the park. He has an apple in his hand. The apple is like the shape of number 5."
- Roll the paper die, and ask student to observe the dots on the surface of the die.
- Ask a student to say the number and find the matching number card.
- Continue the practice by rolling the die and match the dots with the number cards.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

Extended Activities

Making numbers:

- Write a number on the whiteboard.
- Guide students to make the number with their bodies.
- Continue practicing with the other numbers.



Count and circle. How many objects are there in the picture on the left? Please circle the matching number of counting blocks.

1

2

3

3

Please take out the number cards, and place them on the pictures below. Look at the number on each card, then stamp in the yellow box the same number of stamps as shown on each card.

1

2

3

4

Class		Teacher	
Unit	A2-2	Topic	Counting Numbers 1-5

Manipulatives: Number cards, counting blocks, stamp

Learning Activities

1. Draw a circle on the whiteboard and write "1" above the circle. Say, "There is one circle." Draw another circle next by the first one and write "2" above the second circle. Say, "There are two circles." Continue with 3, 4 and 5.
2. Point to number 3. Guide students to find the corresponding number card from their Math Box.
3. Students place three counting blocks next by the number card.
4. Continue practicing with the other numbers.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

Extended Activities

Fast hands:

1. Divide students into groups.
2. Draw several circles on the whiteboard. Each group has a student come up with the corresponding number of the counting blocks. Students with correct number of blocks get a sticker.
3. Practice with different numbers. The group with the most stickers wins the game.



What do the puppy and his mom want to buy? Please stamp in the ☐ next to the item they want to buy.

1

2

Match the plastic shapes to the pictures below. Then color the shapes in the figures with correct colors.

1

2

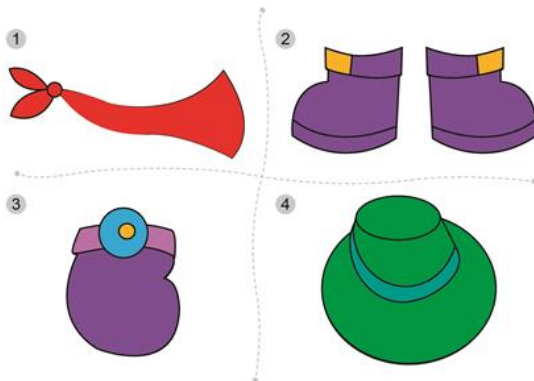
3

Class		Teacher	
Unit	A2-3	Topic	Color-Shape Combinations
Manipulatives: Plastic shapes, stamp			
Learning Activities 1. Draw a triangle, a circle, and a square on the whiteboard. 2. Show students three different colors of markers. (red, yellow, and blue) 3. Cut out three different shapes from colored paper. 4. Point to a marker and a shape on the whiteboard. For example, a red marker and a triangle. Students should look for the red paper triangle. 5. Continue practicing with the other shapes and colors.			
Student Book Activities Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities Fashion show: 1. Cut out some outfits from colored paper. 2. Draw a figure on the whiteboard. 3. Ask students to dress up the figure using the paper outfits. 4. Students introduce their designs to the class. (colors and shapes)			



Look at the outfit of the dog. Then color each item with the matching color.

Look at the outfit of the monkey. Then color each item with the matching color.



7

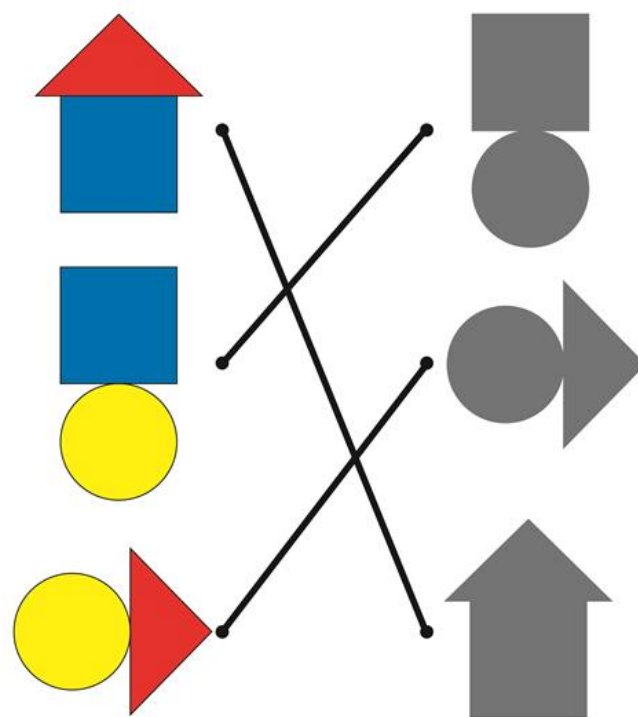
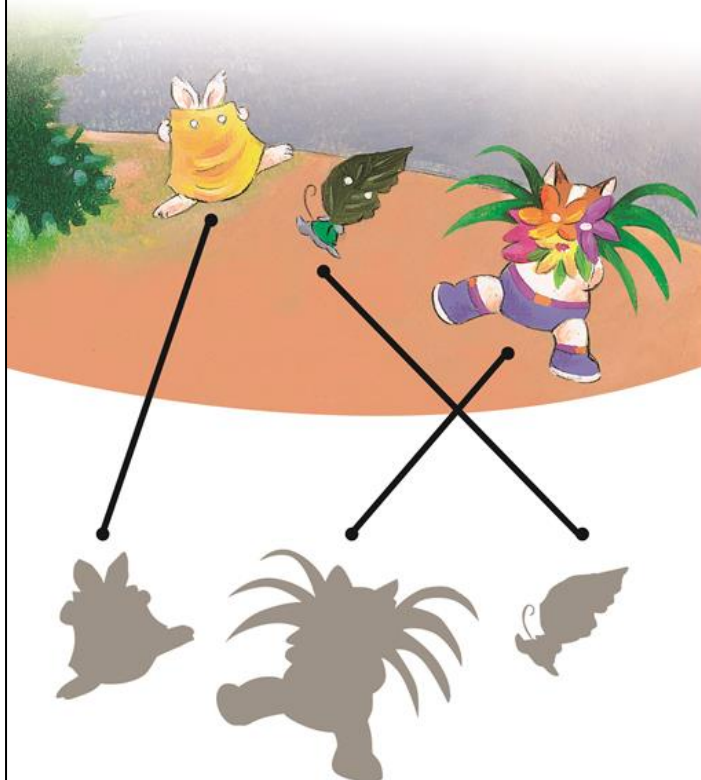
8

Class		Teacher	
Unit	A2-4	Topic	Color-Shape Combinations
Manipulatives: None			
Learning Activities 1. Prepare some pictures of people dressing in different outfits. 2. Show students the pictures. Discuss about the features and colors of the outfits. 3. Prepare worksheets with outlines of clothes. Students color the clothes according to the teacher's instructions.			
Student Book Activities Guide students to complete the practice using the crayons.			
Extended Activities			
Little designers: 1. Prepare drawing paper and markers for the class. 2. Tell students to draw an outfit for mommy. Encourage students to use various colors. 3. Have students introduce his/her design to the class.			



Match the animals with the shadows.

Place the plastic shapes on the matching positions. Then match the pictures with the shadows.



Class		Teacher	
Unit	A2-5	Topic	Shadow of One Object
Manipulatives: Plastic shapes			
Learning Activities 1. Bring students outside to play the shadow game. If it's not sunny enough for the game, play with a flashlight in the classroom. 2. Show students how to hold a plastic shape in the sunlight (or flashlight) to cast a shadow on the ground. 3. Put two plastic shapes together to make a different shape. 4. Students create different shapes of shadows with their own plastic shapes.			
Student Book Activities Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
Shadow theater: 1. Set up a shadow theater. 2. Make some hand shadow puppets, and ask students to guess what they are. Encourage students to try making hand shadow puppets. 3. Tell a story with the hand shadow puppets.			



The doggy is working behind the bushes. What tools is he using? Please match the tools to the shadows.



11

What are these shadows? Please circle the pictures of the shadows.

1



2



3

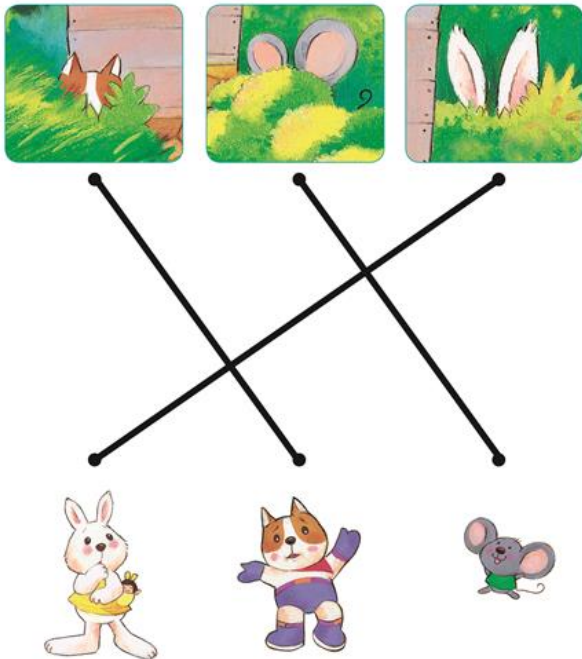


12

Class		Teacher	
Unit	A2-6	Topic	Shadow of One Object
Manipulatives: None			
Learning Activities 1. Cut out some animal shapes from cardboard. 2. Cast the animal shadows on the whiteboard. 3. Every time a shadow is casted on the whiteboard, ask one student to trace the outline of the shadow using a marker. 4. After all shadows are traced, ask students to match the shadows with the cardboard animals.			
Student Book Activities Guide students to complete the practice using the crayons.			
Extended Activities Leaf impression: 1. Prepare leaves of different shapes. Number each leaf. 2. Demonstrate how to make leaf impression with leaves and watercolor. Encourage students to make their own leaf impression. 3. Each student takes turns to show his/her leaf impression, and ask the other students to guess the numbers of the leaves that were used in this painting.			

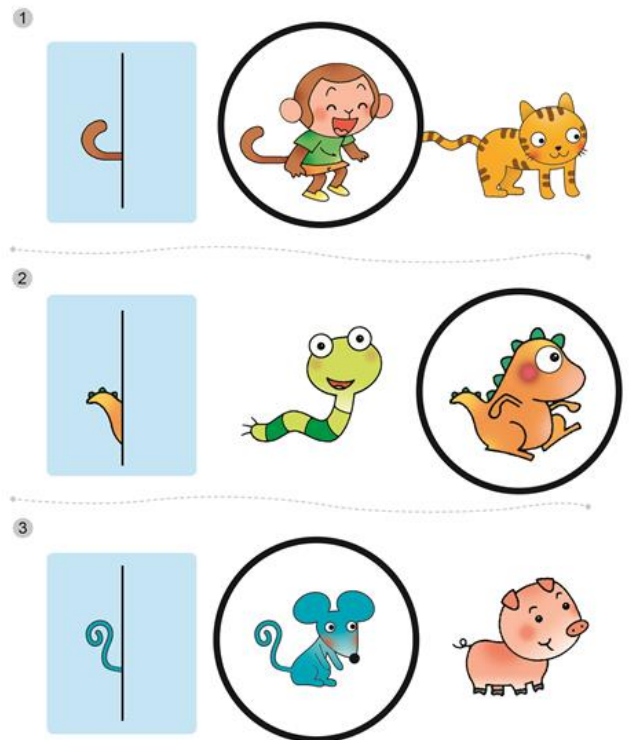


Everyone is hiding behind the bushes. Can you tell who they are? Please match the parts to the animals.



13

Look at the tail behind the wall. Whose tail is it? Please circle the correct animal.



14

Class		Teacher	
Unit	A2-7	Topic	Parts and the Whole
Manipulatives: None			
Learning Activities			
1. Prepare some pictures of different animals. Take out one picture, cover it with a book and only show a portion of this picture.			
2. Ask students to guess what animal it is. Discuss about how they find out the answer.			
3. Reveal more of the picture if students can't guess the animal.			
4. Continue practicing with the other animal pictures.			
Student Book Activities			
Guide students to complete the practice using the crayons.			
Extended Activities			
Guessing game:			
1. Paste some animal pictures on cardboard and cut the pictures into several pieces.			
2. Keep all the cardboard pieces in a bag.			
3. Students take turns to draw a piece and guess what animal it is.			
4. Students can collect the pieces and put together a picture of an animal.			

These animals are covering their faces. Can you tell who they are? Please circle the correct animals.

1

2

3

15

What does the missing part look like? Use the number cards as clues. Then circle the matching clothes.

1

2

3

16

Class		Teacher	
Unit	A2-8	Topic	Parts and the Whole
Manipulatives: Number cards			
Learning Activities 1. Make a photocopy of the number cards (shirts). 2. Cut each shirt into half. 3. Guide students to observe the numbers shown on each shirt. 4. Students find the other half of the shirts and put them together.			
Student Book Activities Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities Fast food restaurant: 1. Prepare two copies of a fast food restaurant menu (with pictures). Cut out all items in half from one of the menu. 2. Have students take turns to roleplay as cashiers and guests. 3. Each guest picks one cut-in-half item, compare it with the complete menu, and then order the food.			



The animals need to line up in the order shown below. Please find the correct order, and stamp in the ☐.



17

Place the number cards in the order of 1 to 5. What would the line look like? Stamp in the ☐ of the correct line.



18

Class		Teacher	
Unit	A2-9	Topic	Counting Numbers 1-5 in Order

Manipulatives: Number cards, stamp

Learning Activities

1. Line up the number cards (shirts) in numeral order. Guide students to read the numbers from 1 to 5.
2. Mix the cards, and ask students to line up the cards in numeral order again.
3. Line up the number cards, and on purposely make a mistake.
4. Ask students to find out and correct the mistake.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

Extended Activities

Number train:

1. Prepare some sets of number cards (1 to 5). Each student draws a card.
2. Ask students with the number 1 card come up to the front. The rest of the students hold their number cards in hands.
3. Students with the number 1 cards be the locomotives. They walk around and look for number 2 to 5.
4. The first train with number 1 to 5 in correct order is the winner.



Read the numbers on the signs. Which number is missing? Please circle the correct number on the right.

1



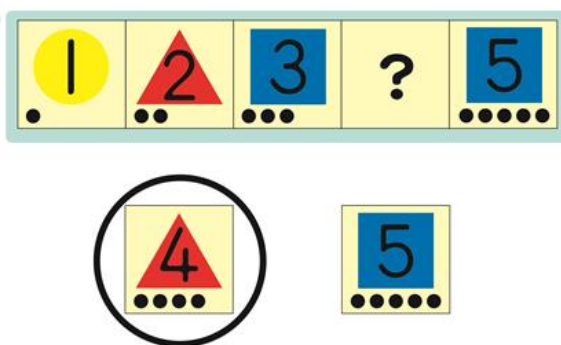
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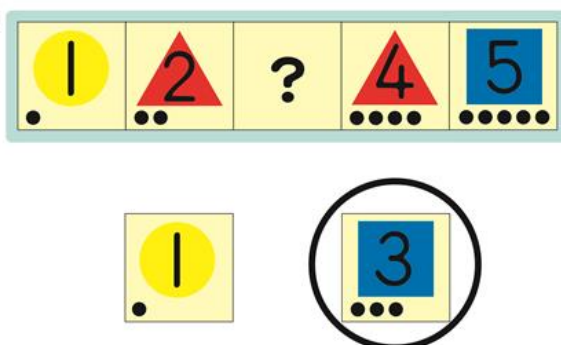
19

Look at each face of the dice shown in the order of 1 to 5. Which number is missing? Circle the correct answer.

1



2



20

Class		Teacher	
Unit	A2-10	Topic	Missing Numbers Within 5
Manipulatives: Number cards, paper die			
Learning Activities			
1. Line up the number cards (shirts) in numeral order. Guide students to read the numbers from 1 to 5.			
2. Cover one of the numbers. Let students guess what that number is.			
3. After students are familiar with the numbers, mix the number cards and hide one card. Line up the cards in numeral order. Ask student what the missing number is.			
4. Guide students to look at the number and dots on each surface of the paper die.			
5. Unfold the paper die. Guide students to observe the six surfaces of the die.			
6. After students are familiar with the surfaces of the die, cover one surface and ask students to show the answer with their own dice.			
Student Book Activities			
Guide students to complete the practice using the manipulatives and crayons.			
Extended Activities			
Hopscotch:			
1. Tape a hopscotch diagram on the floor. Each square has a number in it (1 to 5).			
2. Ask students to hop through the squares from 1 to 5.			
3. To make the game more challenging, have each student draw a number slip from a box. The student has to skip that number while hopping through the squares.			



If every animal in the group wants a trampoline, how many trampolines do they need? Please connect each animal to one trampoline, and then circle the correct number.

1

1
2
3

2

3
4
5

21

Each top has its matching pants. Match the top with the pants. How many pairs of outfits are there? Please connect each top to a pair of pants, and then circle the correct number.

1

4
2
3

2

1
2
3

3

4
5
3

22

Class		Teacher	
Unit	A2-11	Topic	Counting Numbers up to 5

Manipulatives: Number cards

Learning Activities

1. Show student two animal pictures.
2. Guide students to count the animals.
3. Match the number card "2" to the pictures and say, "We're going to do some shopping. Each animal needs one shirt. How many shirts should we buy?" Ask students to pick a number card to answer this question.
4. Place two number cards (shirts) on the table. Tell students each outfit should contain a shirt and a pair of pants. Ask students how many pairs of pants they need to match the shirts.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

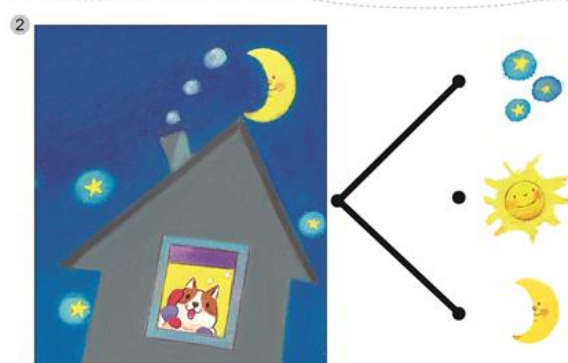
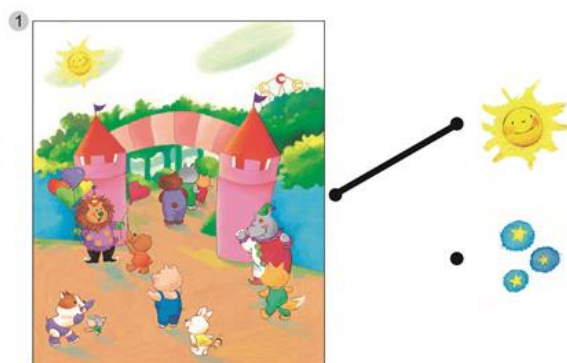
Extended Activities

Serving the table:

1. Prepare some sets of utensils. Have students roleplay as guests and servers.
2. Assign one student as the server. Teacher says a number. The server has to prepare that number of chairs and invite the guests to sit.
3. The server takes out the corresponding number of utensils for the guests.
4. Students take turns to be the server or guests.



Look at these two pictures. What can you see in the sky during the day or at night?
Match the items with the pictures.



23

Which one is a daytime picture? Please stamp in the ☐ below the picture.



24

Class		Teacher	
Unit	A2-12	Topic	Time: Day and Night

Manipulatives: Stamp

Learning Activities

1. Guide students to discuss what they can see at night? For example, the dark sky, the moon, and stars.
2. Say, "It's daytime now. What's the difference between daytime and nighttime?" For example, is it dark or bright? Are the stars and the moon visible now?
3. Take outdoor activities for example. We play outside in the daytime because we can see things clearly. When it's dark at night, we need lights to see things. We can play fireworks at night because it's very dark.

Student Book Activities

Guide students to complete the practice using the manipulatives and crayons.

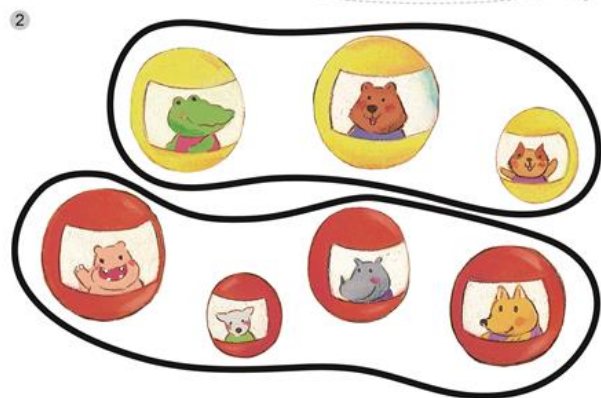
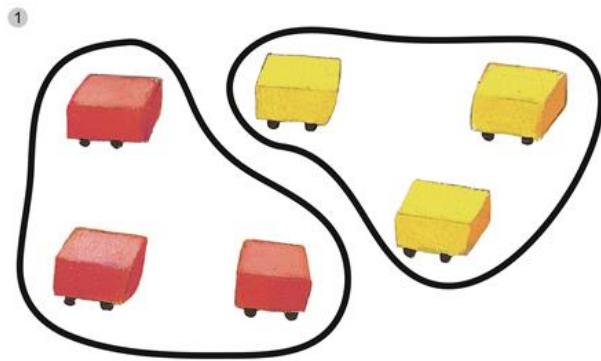
Extended Activities

Sun, moon and stars:

1. Prepare some paper slips. Each slip has a picture of the sun, the moon, or a star.
2. Each student draws a slip.
3. Choose one corner of the classroom as the daylight corner, and one corner as the nighttime corner. Ask students to go to the correct corner according to the slips they have.

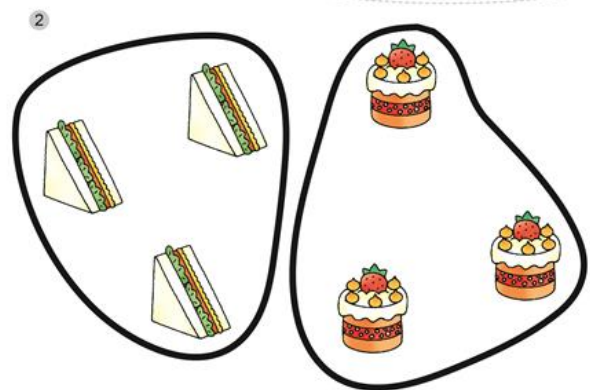
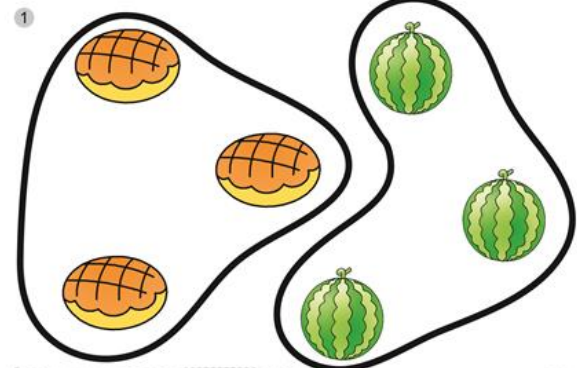


Please divide the train cars into two groups based on colors. Circle the same ones together.



25

Please circle the same kind of food together.

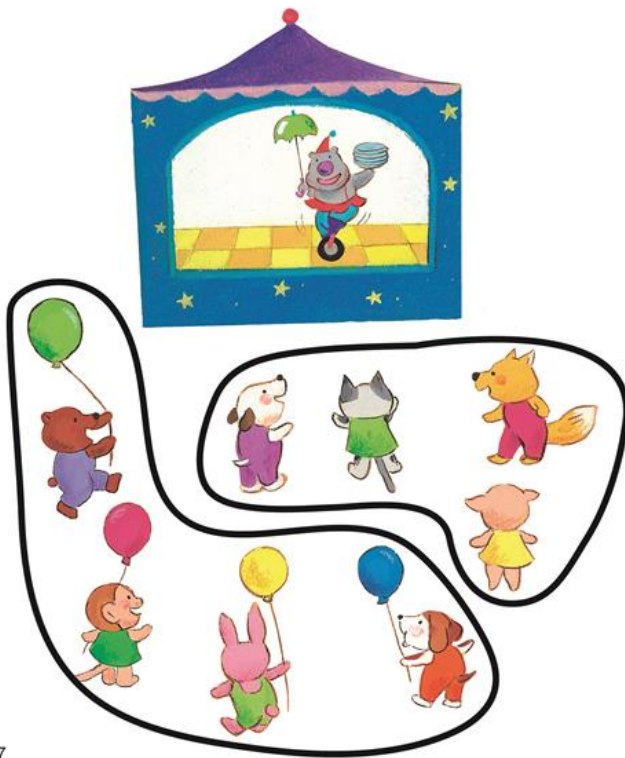


26

Class		Teacher	
Unit	A2-13	Topic	Categorization: Classifying by One Feature
Manipulatives: Plastic shapes			
Learning Activities - Place some red and blue plastic shapes on the table. - Ask students to observe the features of the plastic shapes. - Ask students to divide the plastics shapes into two groups base on the colors.			
Student Book Activities Guide students to complete the practice using the manipulatives and the crayons.			
Extended Activities			
Tidy up:			
- Prepare some toys. - Guide students to divide the toys into different groups according to their colors, shapes or materials.			

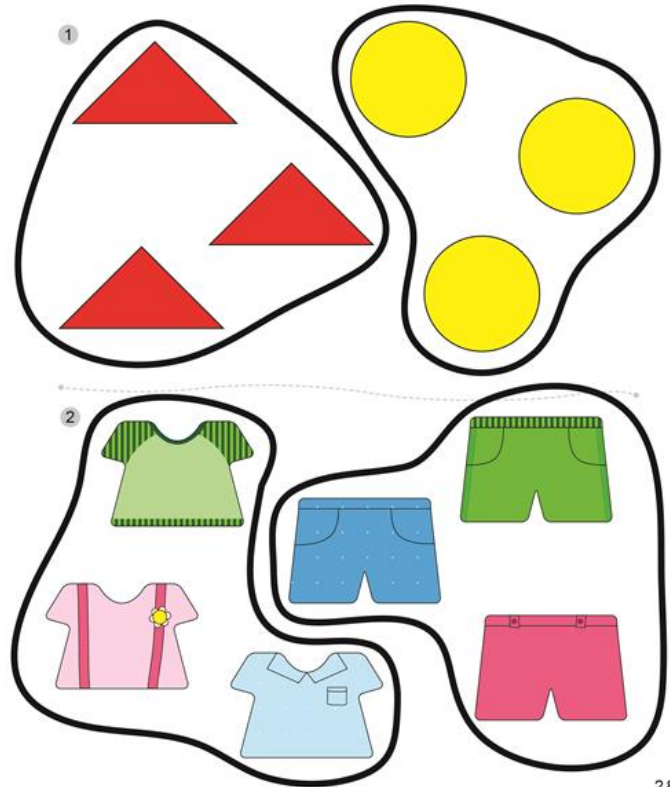


There are many animals watching the show. Please divide the audience into two groups. Circle the ones with balloons in hands together, and the others without balloons together.



27

Please divide the objects into two groups based on shapes.

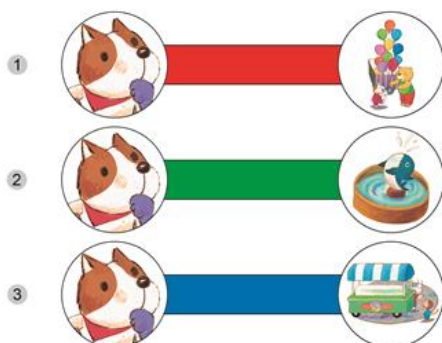
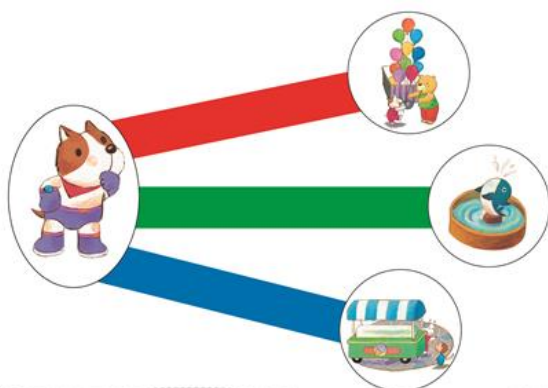


28

Class		Teacher	
Unit	A2-14	Topic	Categorization: Classifying by One Feature
Manipulatives: None			
Learning Activities 1. Cut out some T-shirts from white paper. 2. Draw a bow on some of the T-shirts. 3. Guide students to observe the difference between the T-shirts. 4. Ask students to tell the difference and divide the T-shirts into two groups.			
Student Book Activities Guide students to complete the practice using the crayons.			
Extended Activities Shape matching: 1. Tape a big triangle, a square, and a circle on the floor. 2. Put all the plastic shapes into a mystery bag. Each student draws a shape from the bag. 3. After every student has a plastic shape. Say, "All the shapes, please go home." 4. Students walk into the taped shapes that match their plastic shapes.			

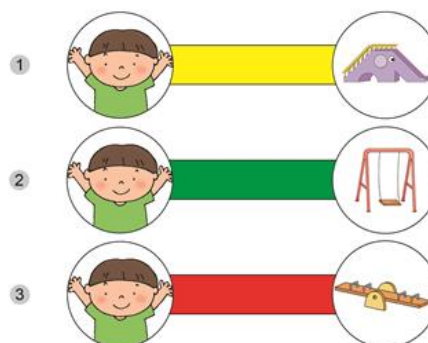
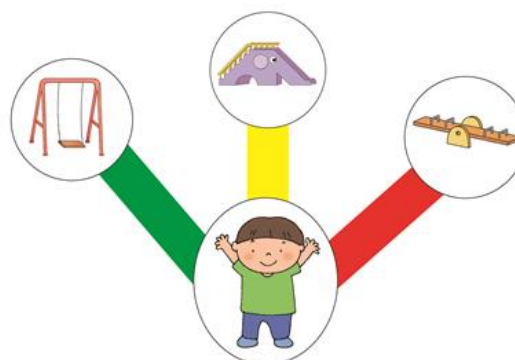


The dog wants to play around the amusement park. Where does each path lead to? Look at the map and color each path with the matching color.



29

The boy wants to try different attractions. Where does each path lead to? Look at the map and color each path with the matching color.



30

Class		Teacher	
Unit	A2-15	Topic	Paths

Manipulatives: None

Learning Activities

1. Draw three paths of different colors on the whiteboard. Each end of the paths has a fruit. For example, the red path has an apple, the green one has a banana, the blue one has a strawberry.
2. Show students a doll and say, "A little girl wants an apple. She sees a red path. She walks and walks, and she finds an apple!"
3. Repeat step 2 with the other two paths and fruits.
4. Ask students what's the color of the path toward each fruit.

Student Book Activities

Guide students to complete the practice using the crayons.

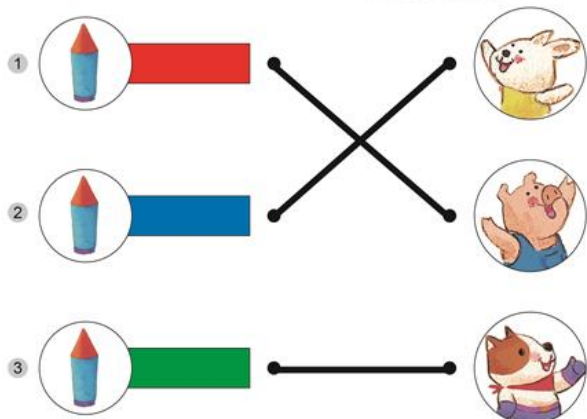
Extended Activities

Delivery man:

1. Tape three long lines (red, yellow, and blue) on the floor.
2. Pick one student to be the delivery man.
3. The delivery man rolls the paper die, says out the color and the number. For example, red and two.
4. And then the delivery man keeps one hand behind his back, and holds two blocks in another hand. He has to walk along the red line and keep his balance.
5. Students take turns to be the delivery man.

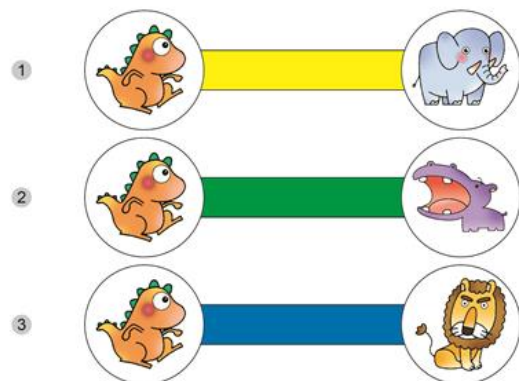
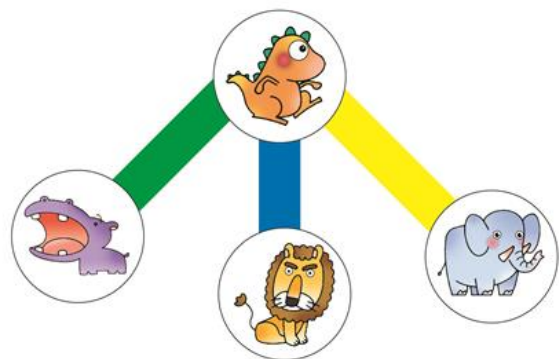


Look at the spinning rocket. Each animal is in a different plane. Match the animals with the colors of the spinner.



31

Based on the route map below, what animal does the path lead to? Color each path with the correct color.

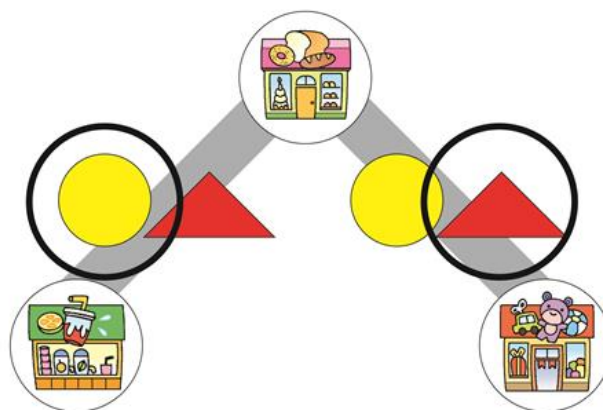
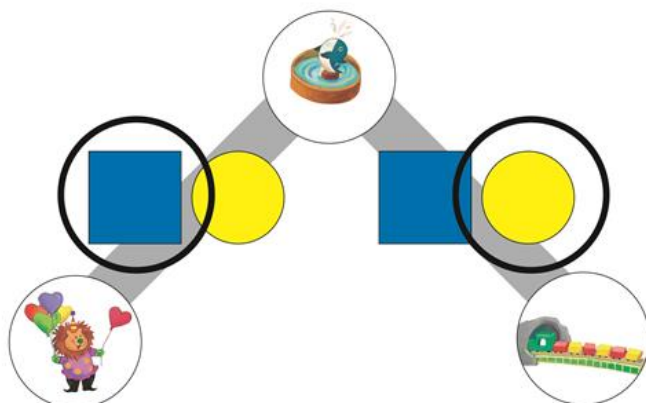
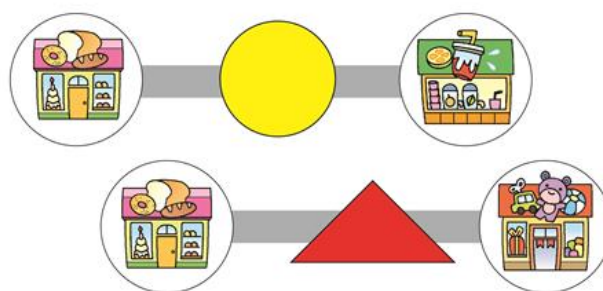
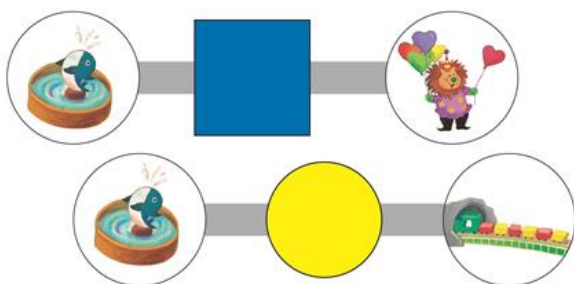


32

Class		Teacher	
Unit	A2-16	Topic	Paths
Manipulatives: None			
Learning Activities 1. Draw a house on the whiteboard and three paths of different colors. Each path starts at the house and leads to a different animal. 2. Ask students "What will we see if we leave the house and walk along the green path?" 3. Repeat step 2 with different paths.			
Student Book Activities Guide students to complete the practice using the crayons.			
Extended Activities			
The way to school: 1. Before dismissing the class, remind students to look around on their way to school the next morning. 2. The next day, have students talk about how they get to school. What's the transportation tool they use? What do they see on their way to school?			



Place the plastic shapes on the matching locations on the paths below. Complete the maps by circling the correct shapes.



33

34

Class		Teacher	
Unit	A2-17	Topic	Paths

Manipulatives: None

Learning Activities

1. Draw a big triangle on the whiteboard, and draw an animal at each point of the triangle.
2. Tell students, "The bunny is going to visit the piggy. The path between them is red."
3. Have a student come up and trace the path with a red marker.
4. Repeat step 2 with the other two paths.

Student Book Activities

Guide students to complete the practice using the crayons.

Extended Activities

Switching game:

1. Tape a big triangle on the floor with red, yellow, and blue tape.
2. Have three students stand at the points of the triangle.
3. Say one color, and then the students at the two ends of this color line have to hop and switch their positions.
4. The student who first hops to the new position can stay, while the slower student has to pick a classmate to take his/her place.