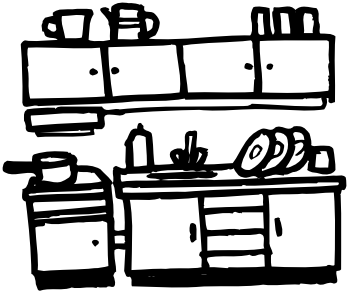




What's where?

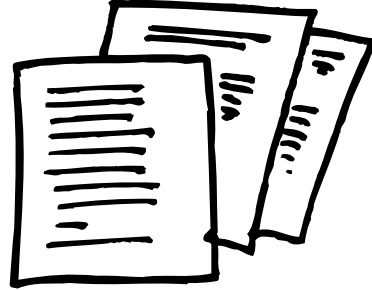
 <p>fabric</p>	 <p>kitchen</p>	 <p>bendy</p>
 <p>plastic</p>	 <p>bathroom</p>	 <p>rough</p>
 <p>paper</p>	 <p>bedroom</p>	 <p>hard</p>
 <p>metal</p>	 <p>living room</p>	 <p>smooth</p>
 <p>wood</p>	 <p>classroom</p>	 <p>soft</p>



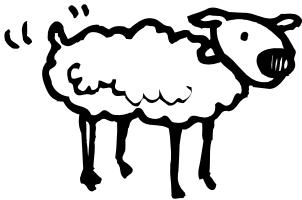
Finding the pairs (1)



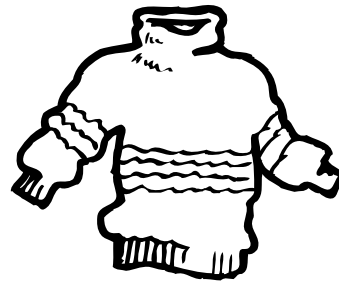
tree



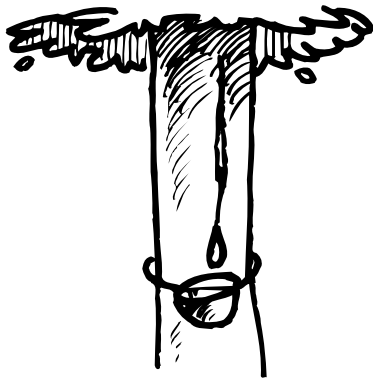
paper



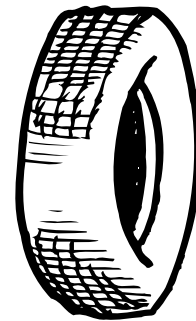
sheep



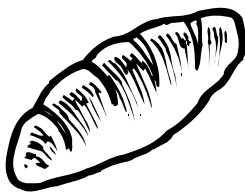
woollen jumper



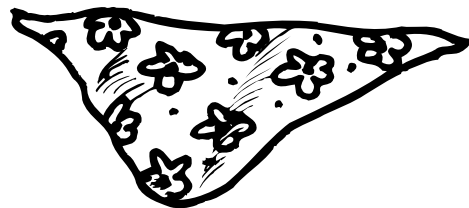
latex



rubber tyre



cocoon



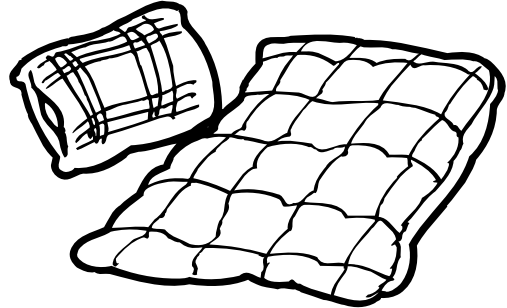
silk scarf



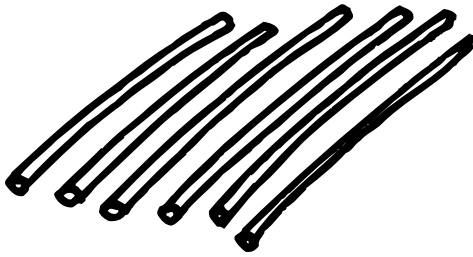
Finding the pairs (2)



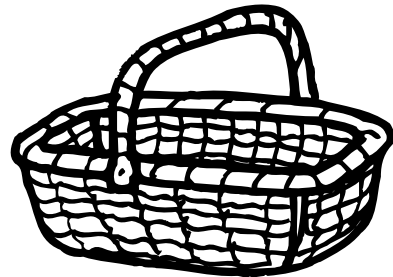
goose feathers



duvet and pillows



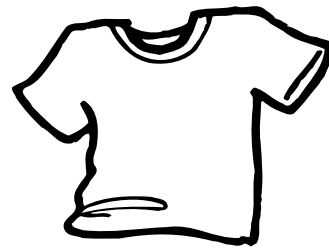
straw



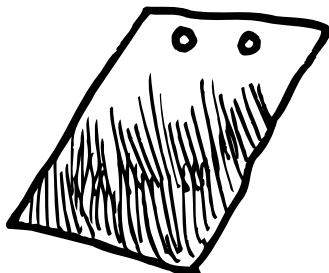
woven basket



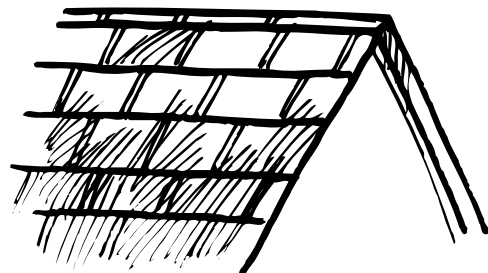
cotton flower



t-shirt



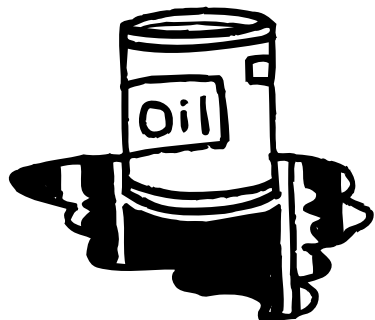
slate



roof tiles



Finding the pairs (3)



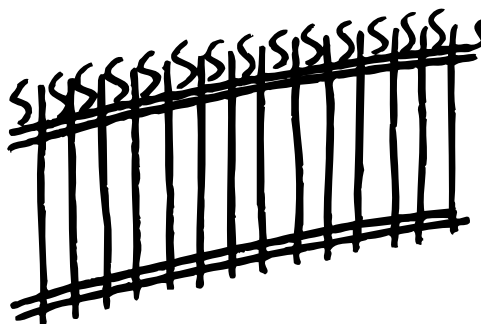
oil



plastic toothbrush



iron ore



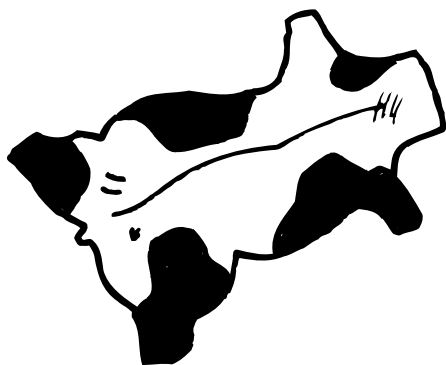
iron railings



clay



cup and saucer



cow hide

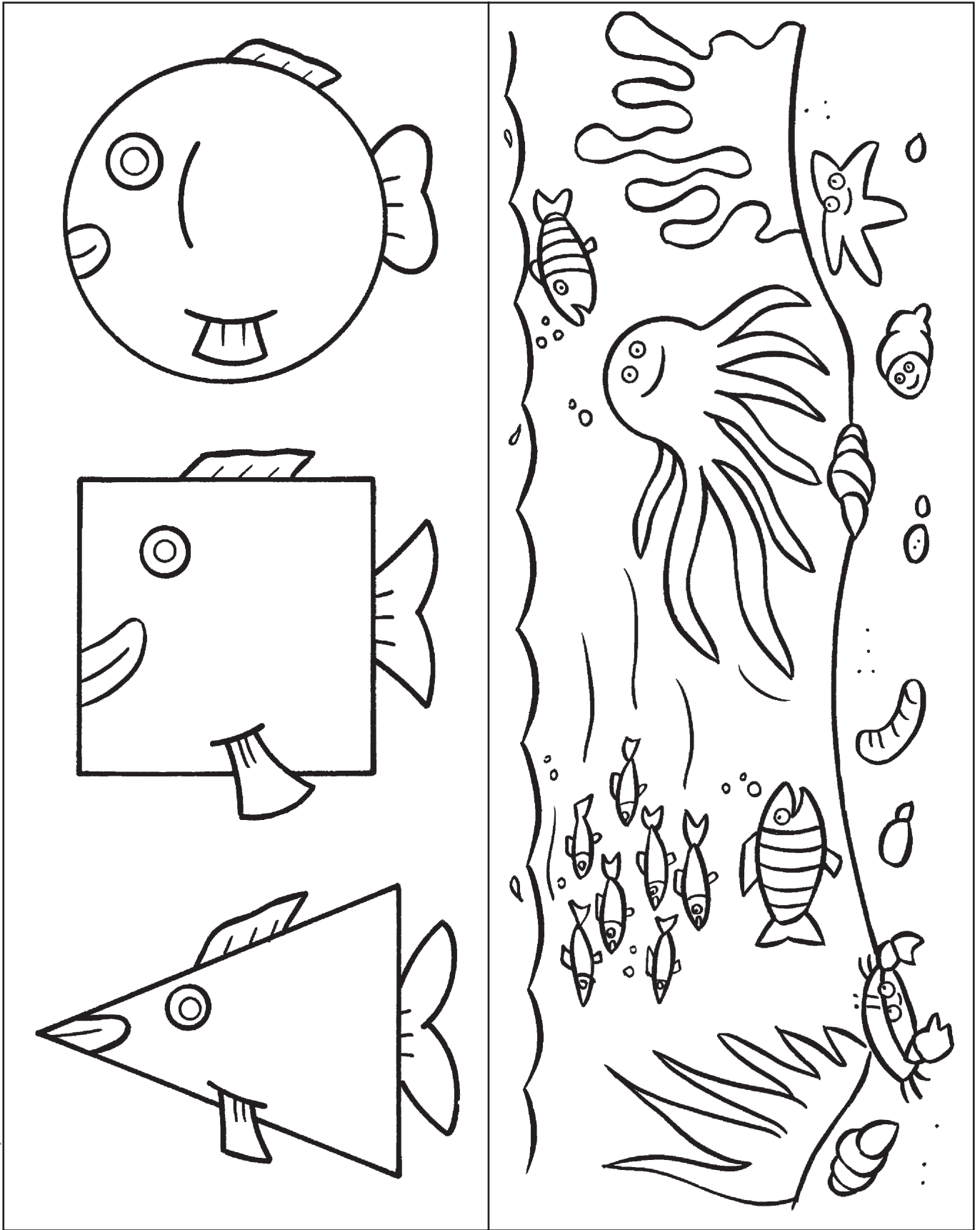


leather shoes

© Illustration: Ian West/Beehive Illustrations



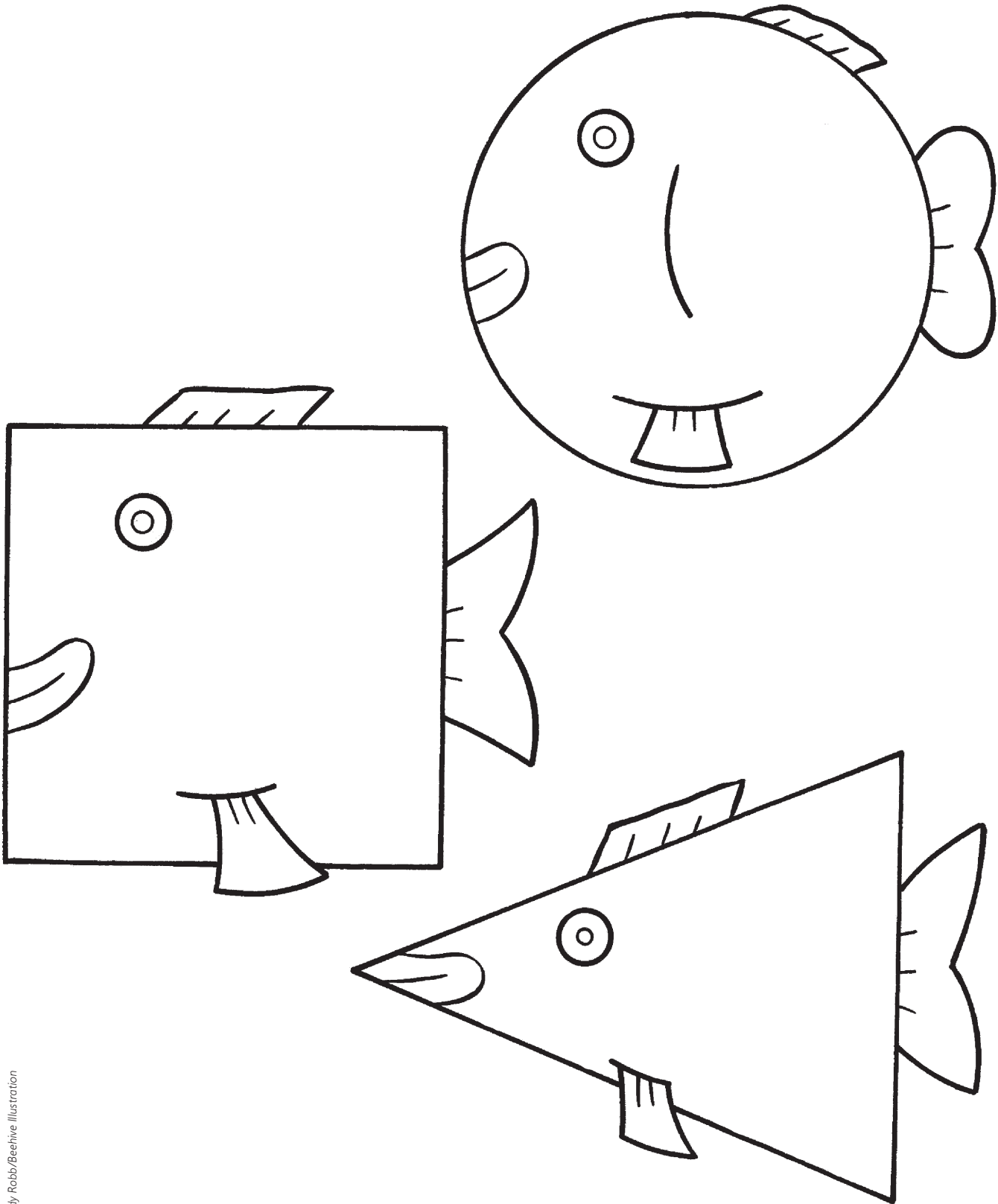
Go fishing (1)



© Illustration: Andy Robb/Beehive Illustrations



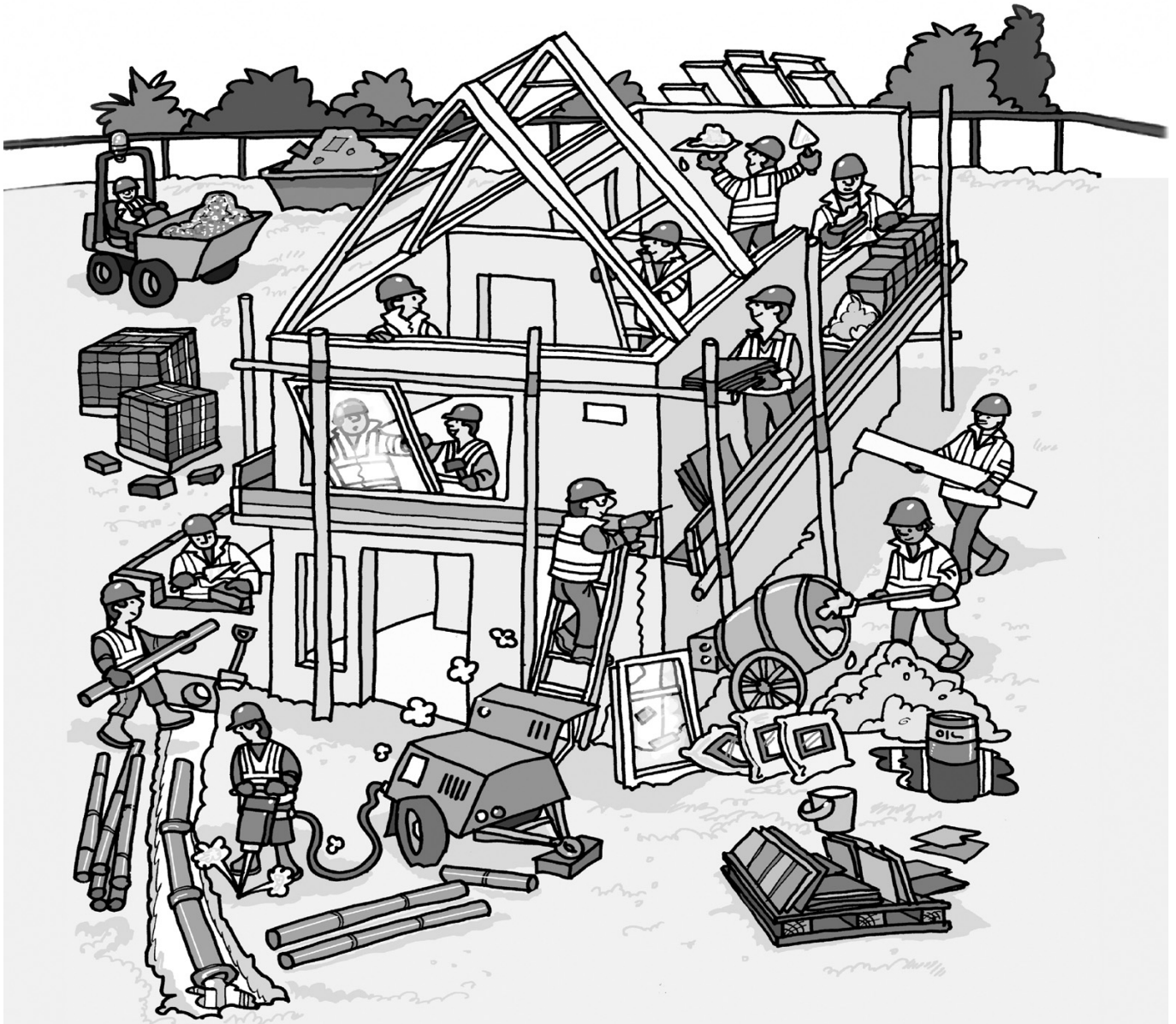
Go fishing (2)



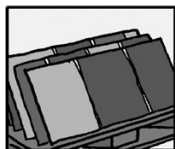
© Illustration Andy Robb/Beehive Illustration



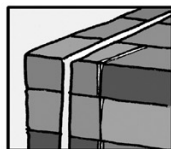
Building a house



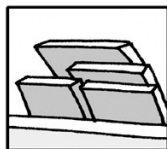
Look for these materials on the building site:



slate



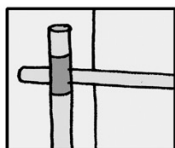
bricks



wood



glass



metal



plastic



sand



gravel

© Illustration: Ian West/Bealve Illustration



Making a car



Name the parts and identify the materials used in making a car

Pictures supplied by Renault UK ©Renault www.renault.co.uk



King Midas and the golden touch

Long ago, so the old stories tell us, King Midas ruled the land of Greece. He had everything that money could buy, but he wasn't happy.

He lived in a huge palace made of fine white marble, but he wanted a bigger and better one. He had a splendid garden with a river running through it, but he would have liked one the size of a forest. He had lots of servants, but never enough to satisfy him.

More than anything else, King Midas loved counting his money and piling it into great shining heaps of gold, but always he wanted more.

Once, as he was walking in the garden, the king was surprised to hear someone call his name. The sun shone, birds sang in the trees and silver dragonflies came spinning across the pond. King Midas should have been smiling with happiness, but he was his usual grumpy self.

'What scoundrel is hiding in my garden?' he scowled. When the servants dragged an old man out of the bushes, the king was astonished to see Silenus, his old school teacher and a friend of the god Dionysus.

'What are you doing here?' King Midas asked.

'I'm lost,' Silenus said. 'I'm growing old and sometimes I forget where I am.'

For the first time that day, King Midas smiled. Silenus had always been muddle-headed, he remembered. Instead of sending him away, Midas ordered his servants to prepare a feast for him.

When the two men had finished their meal, the king called for a carriage and sent Silenus back to Dionysus. The god was so pleased that Midas had helped his old friend that he offered to grant him a wish.

King Midas had only one wish in the world. 'I wish that everything I touch would turn to gold,' he said, his eyes lighting up at the thought of it.

'Are you sure?' Dionysus asked.

'Sure,' the king nodded. So the god kept his promise.

Now as King Midas wandered through his garden, he touched first a perfect pink rose which turned to gold in his hand. He reached up to an apple. Again it turned to gold. He picked up stones, birds' eggs, snail shells – all changed into gold in his hands. He couldn't stop smiling. The servants followed their king, packing the gold into great deep sacks.

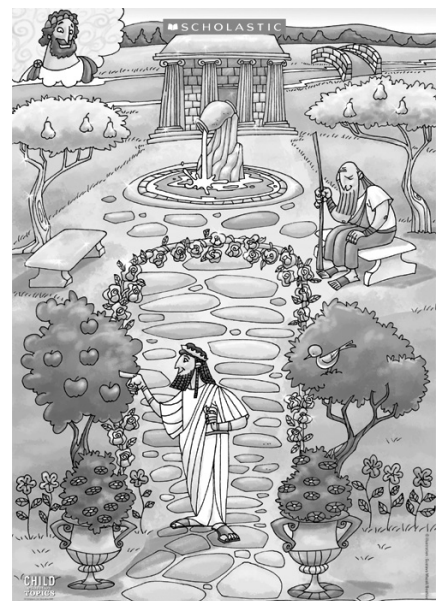
'Take the gold to my counting house,' Midas ordered. 'I'll see to it after lunch.'

But when he sat down at the table, the king got a shock. Everything he tried to eat – bread, meat, a bunch of grapes – turned to gold and cracked his teeth. He tried to take a sip of wine but that, too, flowed into his mouth like melted gold.

'What shall I do?' he asked. 'I'm hungry and thirsty and I hate all this gold!'

He rushed back to Dionysus and begged him to undo his magic. 'I'll never be so foolish and greedy again as long as I live,' he promised.

Dionysus was sorry for King Midas and sent him to bathe in the River Patoclus so that the golden magic could be washed away. And people say, that even now, the river shines gold in the sun.



Moira Andrew



Feeling happy, feeling sad?



King Midas felt _____ when _____



unhappy

sad

excited

greedy

foolish

sorry

angry



© Illustration: Gustavo Mazali/Beehive Illustrations



Can you keep the sweets dry?

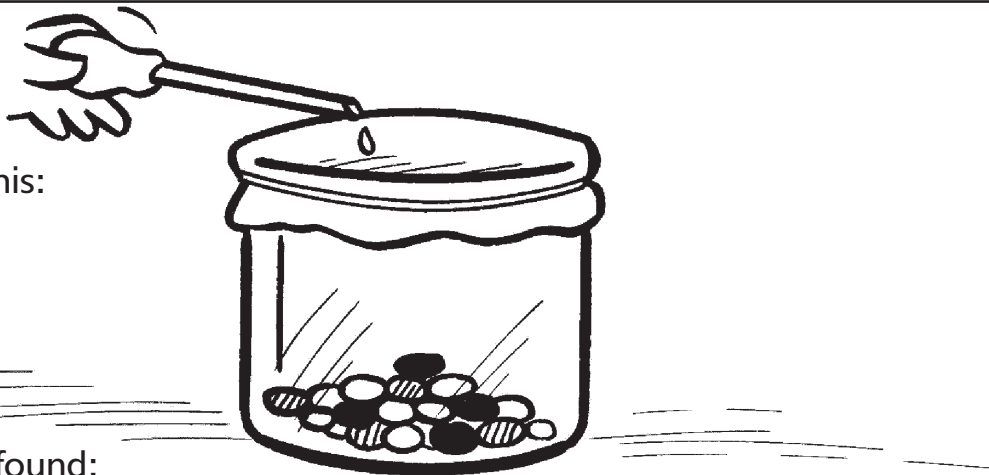
Look closely at three materials and feel them, hold them to the light, and examine them with a magnifying glass. Fill in the table below:

Materials	1	2	3
How does it feel? What does it look like?			
Prediction ✓ Waterproof ✗ Not waterproof			



I think _____ will keep the sweets dry because _____

Test each material like this:



This is what I found:

Materials	1	2	3
✓ Waterproof ✗ Not waterproof			

Can you take a non-waterproof material and find a way to make it waterproof?

Teachers' notes

You will need: water (ten drops); pipette; three different types of material; elastic band; tray; sweets; plastic bag.

Pour some water on to a plastic bag with coloured sweets inside. Ask what would happen to the sweets if they were not in the plastic bag. Show the children a range of fabrics such as cotton, denim, net, card, greaseproof paper and kitchen foil. Ask them why some materials are waterproof and others are not. The children should choose three materials and guess if they think they are waterproof. Carry out the experiment and record the findings. For support and extension waterproof activities and a poem, visit www.scholastic.co.uk/magazines/worksheets-cet.htm

Activities devised by Frank Judge.



How do we use plastic?

Plastic can be very soft and fold up really small.



Plastic can be very hard, so it won't bend at all.



Plastic can be see-through, so you know what's inside,



Or not see-through – and that is good for things you want to hide.



Plastic can be shaped into a lid, a toy, a pot.



With a piece of plastic you can really do a lot!

by Jillian Harker

Teachers' notes

Have a collection of plastic objects and as the rhyme is read, plastic items could be held up and their properties demonstrated, for example, a plastic bag being folded for line one. A selection of different objects could then be sorted. If they are flexible, they could be put in the plastic bag, and transparent ones could be put into a transparent plastic container and so on. The children can explore whether some materials could be placed in more than one category. Use the rhyme to explore vocabulary, such as *flexible*, *rigid*, *transparent* and *opaque*.



Can you keep Teddy dry?

Can you guess which fabric will keep Teddy dry?



My guess is that _____ will keep Teddy dry.

Fabric	1	2	3
✓ Keeps Teddy dry			

Results

Fill in the results of your test in the boxes below. Were your original guesses correct?

Will keep Teddy dry

Waterproof ✓

Will not keep Teddy dry

Not waterproof ✗

Teachers' notes

You will need: water; pipette; material; elastic bands; beaker; three strips of different material; plastic cups; teddy. Talk about materials that keep us dry. Show the children some materials, for example, cotton, denim, bin bag and so on. Encourage the children to inspect these – look for holes, feel the surfaces, talk about how they are different. Encourage prediction: which will be waterproof?

Choose three materials and demonstrate how to test them. The children should record their results by writing or pasting samples on to the sheet.

Activities devised by Frank Judge.

© Illustration: Andy Robby/Beehive Illustration



Can you keep the sweets dry?

Look closely at three materials and feel them, hold them to the light, and examine them with a magnifying glass. Fill in the table below:

Materials	1	2	3
How does it feel? What does it look like?			
Prediction ✓ Waterproof ✗ Not waterproof			



I think _____ will keep the sweets dry because _____

Test each material like this:



This is what I found:

Materials	1	2	3
✓ Waterproof ✗ Not waterproof			

Can you take a non-waterproof material and find a way to make it waterproof?

Teachers' notes

You will need: water (ten drops); pipette; three different types of material; elastic band; tray; sweets; plastic bag.

Pour some water on to a plastic bag with coloured sweets inside. Ask what would happen to the sweets if they were not in the plastic bag. Show the children a range of fabrics such as cotton, denim, net, card, greaseproof paper and kitchen foil. Ask them why some materials are waterproof and others are not. The children should choose three materials and guess if they think they are waterproof. Carry out the experiment and record the findings.

Activities devised by Frank Judge.



Can you make an umbrella?

Look closely at the materials. Which is strong and has some stretch?
Can you guess which is waterproof?

I think _____ will be waterproof because _____

Use the equipment to find out which material is waterproof.



How will I make my test fair?

My results

Materials	1	2	3
✓ Waterproof			
✗ Not waterproof			

My conclusion

The best material for the umbrella cover would be _____
because _____

Teachers' notes

You will need: water; pipette; material; elastic band; beaker; teddy.

Discuss the properties of suitable materials for an umbrella cover. Consider strength, elasticity, waterproofing, lightness, attractiveness and cost.

Show a collection of materials, for example, wool, denim, Gore-tex, cotton, net, bin bag and so on. Discuss what it is that makes a material waterproof or not, and how this can be fairly tested.

Activities devised by Frank Judge.



Can you keep Teddy dry?

Teddy's in his new clothes,
And he's starting to get upset –
It's beginning to rain,
And he's worried he'll get wet.

Let's see if we can help
To keep his new clothes dry.
He needs to be protected,
As rain falls from the sky.

Don't worry, Teddy,
We'll see what we can do.
We'll find something for overhead
To keep the rain off you!

by Frank Judge

