

Crowther in trouble

Selling flags costs Leslie a fortune!















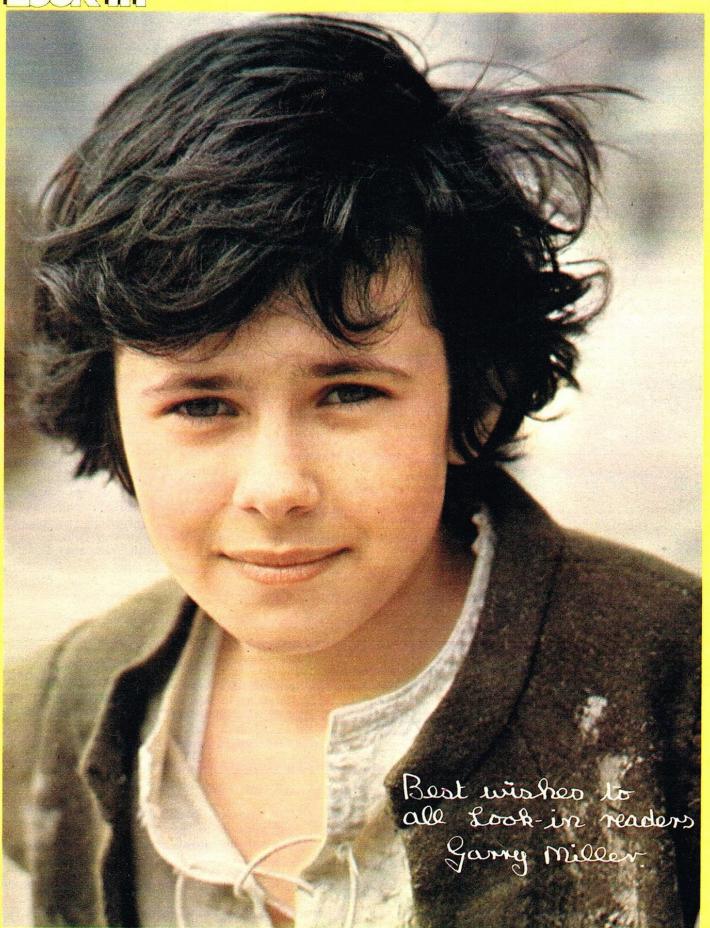








Lookin



GARRY MILLER

3115H 304

Schooling generally means much textbook studying within the confines of a crowded classroom. To one boy in particular, however, his education meant living and playing with wild animals—as he spent many years with a tent as his 'home'...

Francis tries a bit of trick riding—with a rhinoceros as his mount!

THE MASSIVE ORB of golden yellow dulled slowly into brilliant crimson and sank behind the horizon. In its wake, the dark blanket of night spread across the sky...

Snuggled comfortably in his bed, lying between those of his parents, the young boy slept contentedly. Outside, only the small light afforded from an open fire illuminated the blackness.

But its flickering flames played an imperative role. For this was no ordinary family settling down within the safety of their brick-built house.

The boy, Francis—and his parents, Maurice and Jeanette Fievet—were sleeping in a canvas tent in the animal-infested bush of Africa!

Night in the Dark Continent is a chorus of strange screams, piercing cries, raucous whistles and a host of other intermittent and mingled sounds.

Already, hostile eyes glanced towards the camp, only to note that open fire and turn away again . . .

Frightening? Undoubtedly to many of us who are used to the safe comfort of civilisation. But to *Bush Boy*, Francis, who was actually born on safari in Nigeria, in 1952, this is the only way of life he knows—and *loves*!

An eye towards Africa

Francis' Father and Mother are both Professors of Arts in Paris. In 1947, they decided to travel to Africa and spend a year there, painting and filming tribal customs and the wild life. But they overstayed their

visit-by another fif-

teen years!
Returning to Europe
only twice, they continued on a perpetual safari, living
and eating besides

Africa's animals.
At just sixyears - old,
Francis was allowed to go with his parents on a 'hunt'—in other words, to watch

the lions, leopards and hyenas strike at the antelope and zebra which had moved in around the water hole, finally overcoming their fear as thirst tormented them . . .

Like all boys, Francis soon wanted a pet of his own.

One evening, he climbed into a tree to scan the horizon with his binoculars. Suddenly, the scream of a baboon caught his attention.

In a moment, Francis noted something else—a fawn patch among the thicket. It was a lioness with four cubs, newly born.

Rescue raid

In the morning, the lioness decided to move her position, perhaps to a safer one. Gently, she picked up the first cub in her mouth and carried it away. Then another; and the third.

Strangely, though, she did not return to collect the final cub. Soon, hyenas and jackals started to close in. Francis refused to leave the baby lion.

Persuading his Father to help, they both leaped into their car and closed in.

Brief seconds later, the car stopped. Mister Fievet ran out, reached for the cub and was inside the vehicle again, in seconds...

So Francis had his pet, named Simba. He soon had many more—like Bobby, the giant chameleon and Tikkie, the mongoose; not to mention his other friend, Bruce—a baby rhinoceros!

So Francis' strange education continued. While other boys of his age were at school, he was being educated in the open. Truly Francis Fievet can be called *Bush Boy*.

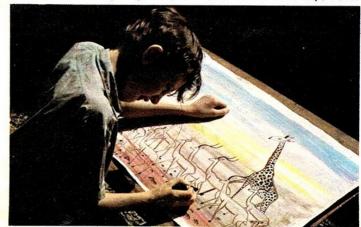
In many regions, Bush Boy will have already reached your TV screens. For those who have yet to see the story of this amazing boy, keep a close watch in the TVTimes and LOOK-IN.



Above, left: Teaching a lion cub to operate a camera just isn't easy! Above, right: Francis befriends a young zebra with a comforting pat.



Francis visits a colony of gannets, situated on an island off Cape Town. He had to watch his fingers—because these birds can be very aggressive



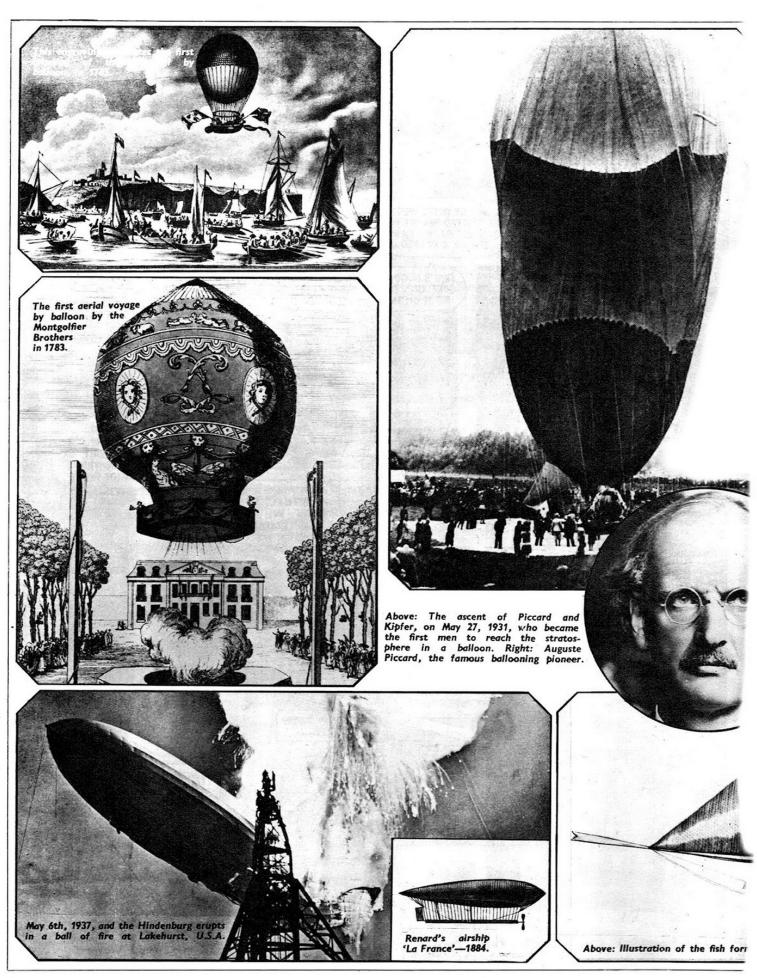
Francis captures on canvas the magnificent creatures he sees daily. Bobby—Francis' pet chameleon. Despite his size, he's quite harmless.







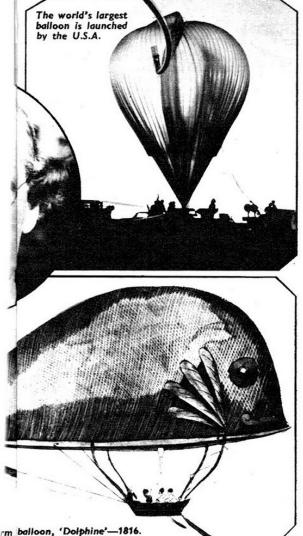
Where will the giant rocket take Liz and Simon? See next week!



Another early balloon flight - a crowd gathers to watch the final descent.



Above: A chart showing the unsuccessful path of a transatlantic crossing by balloon in 1958.



Magpie looks at the age-old art of ballooning . . .

HE two men tensed expectantly as they stood in the flimsy structure of a large cane-andwicker-work basket. It was approximately six feet long, two feet wide and its sides came up to their waists. It was attached by a multitude of ropes to a huge, brightly-coloured balloon! One of the men shouted a command as he threw sand ballast sacks from the basket. With a jerk, the balloon started to ascend, carrying with it its human cargo.

Higher . . . higher . . . higher the two men and their strange craft rose.

Discarding more bags of ballast, the men experienced a sensation of incredible freedom, until, at last, they were lifted even higher than the majestic clouds.

The year was 1931. And the balloonists, Auguste Piccard and engineer, Paul Kipfer, had become the first men ever to fly a balloon into the stratosphere—at a height of 50,000 feet.

But the magic of ballooning began long before that historic flight. The real pioneers of balloon flight were the Montgolfier brothers-Joseph and Jacqueswho lived in the small French town of Annonay. And it was in 1782 that they discovered a lightweight bag filled with heated air would float upwards.

FIRST FLIGHT FOR BALLOONIST

In 1783, another Frenchman, physics professor, Jacques Charles, produced the first balloon to contain hydrogen-a gas lighter than air. Later that year, man made his first ever balloon flight when Jean Pilatre de Rozier reached a height of eighty-four feet.

Since those early adventurers of the skies, many sorts of balloons have been put to a variety of practical uses. History's first bombing raid was made from a balloon in 1849. This was when the Austrians used unmanned hot-air balloons to bombard the besieged Italian city of Venice. Reconnaissance balloons were used by both sides in the American Civil War (1861-65), too.

Later, a certain Ferdinand Von Zeppelin saw balloons as a means of commercial air travel. But his balloons, instead of travelling at the mercy of the winds, were powered by engines. These craft were called airships and they signified a new but short-lived era in aviation.

The biggest ever built was the Hindenburg which was completed in 1936. This fourengined giant, inflated with hydrogen, was more than 800 feet long. comparison,



that was over three times the length of a Poeing 747 'Jumbo' jet. Surprisingly, it could carry only fifty passengers. Just one year afterwards, it crashed and burs into flames, killing many passengers. Since this tragedy, airships have been abandoned, and out of the nine-hundredand-eighty that were built, only four remain. But ballooning, whether for pleasure or practical reasons, is not jus something long forgotten.

Only five years ago, Anthony Smith founded the British Balloon and Airshij Club. This is an organisation for balloon ists who have had at least twelve hour flying experience. There are other re quirements, however. To join this club, a person must know about air law, meteor ology and navigation-apart from having the courage to actually go up in a balloon!

A MOMENT WITH MAGPIE

After all, remember Susan Stranks experience when she went ballooning o her very first Magpie programme in 1968 The film was shown again recently o Magpie's two hundredth anniversary an it showed Sue's balloon blowing u shortly after she landed. Fortunatel though, no one was hurt.

There are a variety of air displays a fêtes that include ballooning events. you'd like information on when a where these events are taking place, w to: The British Balloon and Airship Cl 75, Victoria Street, London, S.W.1.

A DATE WITH LOOK-IN Remember, Magpie's recent announcement of the Summer Con etition? Well, here's a reminder that you have until August 6th (inclusive) to send yo completed entry to Thames Television.

You simply choose a certain time in history (or even in the future) and make a scr

book to show what your life would have been like if you were living at the time.

There are two age groups—10 and under; and 11 to 16. The winner from each group will have a chance to appear on the programme in a special 'Date With Tony' feature based on their respective entries.

In addition, each winner will receive a special Magpie memento of the particular period of history chosen. (If it is some time in the future the prize will be a Magpie present from SPACE) PLUS: The two winners will be invited to attend a special interview with LOOK-IN, an

have their names and photographs published in a future issue of the magazine. So if you haven't already got underway with your scrap book-hurry! You've not to much time left.



































A paint problem for Potter, next week!



I always get pleasure out of reading your letters about my column and it is interesting to read about the music and artistes you like.

One artiste in particular who is a tremendous favourite of yours is Cliff Richard. So especially for Bill Shepherd of Oxford and Maureen Howard of Enfield—not to mention many others of you who are crazy Cliff fans—I'll talk about him this week. (Incidentally, I am a big Cliff Richard fan, too.)

Cliff was born in Lucknow, India, on 14th October 1940, and first came to England with his parents in 1949 when he went

straight to school.



In mid-summer, 1958, he—like Elvis Presley—made a private recording (which lost six pounds! At that time his act was known a Cliff Richard and the Drifters—this backing group later becam the famous Shadows.

Cliff has been awarded five gol and twenty-one silver discs, which is remarkable. But what is moamazing and shows the lastidevotion of his fans is that he had topped the New Musical Expropopularity polls in one or macategories every year since 19.

He is not only a very success pop singer but is developing a competent actor, too. Apart freearly films such as 'Summ Holiday', I saw him in a play at 1 Bromley Repertory Company at thought he was great.

His fan club is at 17, Savile Row, London, W.1.

Bye for now,

Do you know how to make a wooden whistle or play the horse-shoe game? What about sound effects or how to make toys from rubbish? Not too sure?

That's what the presenters of ITV's longestrunning children's programme are banking on for the new How! series. Those items, plus many more—such as how to play the bagpipes and discover how a machine can talk to you—are all included in this



JACK HARGREAVES

Born the son of a Yorkshire farmer, he became a radio writer and producer before the war. Later he became Managing Editor of Picture Post, a magazine which many of your parents will remember. He has taken part in several TV programmes such as Out Of Town, Country Boy and, of course, How! Jack's hobbies include fishing, shooting, sailing and natural history.



FRED DINENAGE

Fred lives at Waterlooville, Hants., is married, and is a great do-it-yourself enthusiast. He is also a keen footballer which is not surprising as he regularly introduces Yorkshire Television's Yorksport programme and occasionally takes over from Richard Davies on World Of Sport. Fred is also the How! team's unofficial stuntman. Yes, Fred is certainly the outdoor type.

seventh series. There are many weird and wonderful subjects featured, with approximately fifteen being covered in each programme. In all, since the series began in 1966, over 2,000 experiments have been performed during the 130 programmes.

But how about the well-known panel members who answer questions in LOOK-IN each week? Let's find out a few facts about them . . .



JON MILLER

This marine biologist, traveller, animal lover, author and fishcollector is a great 'machinemaker', often presenting his strange gadgets on the programme. Take the breakfast machine, for example. "Its purpose is to enable you to read the morning newspaper while you're eating", says Jon. Jon has been to Russia and Scandinavia to collect marine specimens.



BUNTY JAMES

The only female member of the panel, Bunty was in radio before joining Southern Television in 1960. She has contributed many items to How!, but not without the occasional problems. It took her five weeks to get a grape into a bottle. "Each week the apparatus was set up on air but the grape just wouldn't go in!" Bunty is married and she has two children.

Look out for next week's Look at for next week's Look at for next week's Look at the look

Ace of Wands is returning to your TV screens. Next week, LOOK-IN introduces this exciting new series.

THE FORTUNE FINDERS tells the story of the men who search the seas for sunken treasure. This special Magpie feature will hold you spellbound.

More prize-winners' names. Next week the 50 winners of the recent Look-IN ZZZOOM-IT Competition will be announced — plus runners-up!

GET NEXT WEEK'S LOOK-IN-Order your copy now!



ongratuations To the 10 lucky prizewinners of the Raleigh/Chopper Cycles Competition published in Look-IN No. 18.

Stephen Row, Ilford, Essex. Sally Nickels, Burton-on-Trent, Staffs. John Holland, Winton, Manchester. Jayne Lister, Bradford, Yorks. Douglas Cornish, Norbury, London. Christine Morley, Colwyn Bay, N. Wales. Nigel Mason, Clowne, Derbyshire. Karen O'Byrne, Liverpool. Iain Mitchell, Sanquhar, Scotland. Andrew James, Kingston-Upon-Hull. The above readers will be receiving their prizes direct from Raleigh Industries Ltd.

Comedians Mike and Bernie Winters select this week's letters and jokes from the LOOK-IN Postbag.

ENQUIRIES room, because he says

JP THE SPOUT!

My Mother had rather a nice teapot, but one day she dropped the lid and broke it. She was very upset about this because she knew it would be difficult to get a lid to match it. One day she saw an odd lid in a china shop, so she bought it, hoping it would fit. When she got it home, we found it was a tiny bit big, so my Father said he would file it down. Carefully, in case he broke it, my Father managed to get it to fit. When he'd finished, he was so delighted he came hurrying out of his workshop to show it to us, and on his way through the door, knocked the spout off!

Prescot, Lancs.

Never mind, Paul-this unhappy incident has won you our £2 Star Letter prize, so perhaps you'll be able to buy a brand new teapot, complete with spout and lid. Dad did his best but always remember-more haste less speed!

READER'S REQUEST

I am fond of Val Doonican so could you please print a picture of him. I will be very happy if the Editor grants my wish.

> Nicholas Messenger, Woodhouse, Notts.

Your wish is the Editor's command, Nicholas!





Stephen Boston, Middlesbrough, Teeside.

WEIGHT WATCHER

One day, hearing my baby brother Julian give a big sigh, my Mother asked him what was the matter. She called him to come over to her, but when he turned to come to her, he fell flat on his face. She ran to pick him up thinking that he was ill, but she could hardly lift him up. He seemed very heavy. Later on Mum found that he had put all the weights from the scales down his trousers!

LOOK-IN Reader, Newbury, Berks.

Julian has all the makings of a star of tomorrow





"How do you open a safe?" Keith Fox, Sheffield, Yorkshire.

TICKED OFF

Most evenings my Daddy sits in his armchair to watch television, but soon falls fast asleep. He sleeps soundly whilst the room reverberates with the sound of galloping horses, the whoops and screams of invading Indians and the crack of gunfire, yet he won't have a clock in the bedticking keeps him awake. Wh do you make of that?

Jane Hall, Bolton, Land I would say he belongs to the wi open spaces, Jane.

WINTER TIME

I am a regular reader LOOK-IN and while on ho day in Yarmouth, we we to Lowestoft. My parents, n brother and myself went for snack, and noticed, as we were leaving the cafe, that a sma crowd had gathered. This phot graph shows you why. A brother asked Bernie Winters he would mind having photograph taken, and this the result. I am stroking t dog in the background and c not realise I would be in t picture. We are naturally gre fans of Mike and Bernie Winte

Adrian Reid, Hitchin, Her

And a very good picture, to Adrian. Remind me to buy you hot meal, next time!



Win £2 for the Star Letter, plus £1 for any other letter or joke Plus: a special signed photograph of the Your View star will I posted to the sender of every item published! Why not write now to Your View, LOOK-IN, 247 Tottenham Cou Road, London WIP OAU? But, remember-when you write, a enclose a list of your four favourite features, plus the feature y don't like (if there is one).







In this second article about the continent 'down under', Colin Willock talks about some strange animals

Australian Oddities

Let me introduce you to some more of Australia's odder animals. Now, this great furry creature the size of a large dog bumbling down through the undergrowth is a wombat. It looks very like an enormous guinea-pig. But, of course, being an 'Aussie', it isn't any relation to that homely creature at all. Like most mammals down under it carries its young in a pouch and is called a marsupial—a pouched animal.

Look up in the top of that tall eucalyptus tree. There's a familiar face gazing down at you. It's a koala. Did you know that this animal never drinks? This is because it gets all the moisture it needs from eucalyptus leaves—and which grow on only certain kinds of eucalyptus trees at that.

Koalas are in very short supply and their entire future depends on preserving sanctuaries of the eucalypts (down under they call them gum trees) that they need for food and drink.

The primitive pouched animals can do almost anything the more 'advanced' mammals of the rest of the world can do. Some of them can even swoop from tree to tree like flying squirrels. The gliders are fascinat-

ing animals. The sugar glider which lives on the nectar it finds in the blossoms of Australia's plentiful flowering trees is the smallest and most appealing of them all.

When a glider wants to fly, it spreads out a membrane between its front and back legs and just takes off from a tree-top. Since it is only gliding, there is just one way it can go—down. Just the same, gliders have been known to cover forty yards in a single flight. It's a very useful trick when menaced by an enemy like a big lizard. It helps, too, when it spies a tree with some juicy-looking

A marsupial, the Numbat carrying its young. This creature feeds on termites.

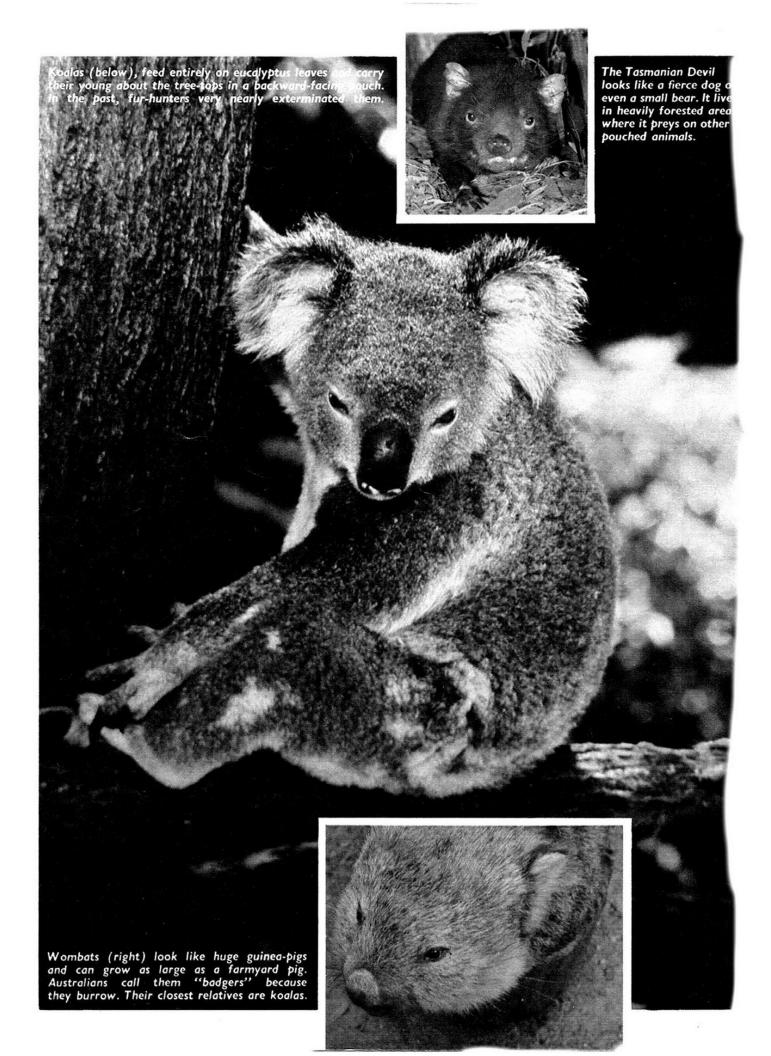


blossom on the other side of a clearing.

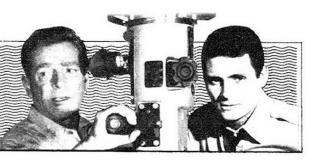
All told, there are one hundred and nineteen species of pouched animals in Australia and Tasmania. They range from minute marsupial mice to the huge red kangaroo which stands six feet tall—I'll be telling you about the 'roos later on. Only in one department do the pouched animals seem to have missed out. They haven't produced very many large predators.

The Tasmanian Devil is one exception. It's a fierce, dog-like creature that hunts in the remote mountain forests of Tasmania. Then there are the smaller spotted, ferretlike native cat and tiger cat. But the predator that really excites naturalists is the Tasmanian wolf or Thylacine. It was only discovered one hundred and fifty years ago, a six-foot-long creature with sixteen dark stripes along its flanks.

For a long time, it was thought to have been extinct. But now there's an exciting doubt. Every now and again comes a report of a huge, fierce animal glimpsed in the mountains of northern Queensland. Many people believe the wolf still lurks in the mountains of Tasmania, though it has never even been photographed!



VOYAGETOTHE BOTTOM OF THE SEA























Hey kids! win a free Hot Wheels AMX Drag racer!



Just like the real one in the Hot Wheels™ Drag Team!

The Hot Wheels AMX Drag racer is just like the one Shootin' Ed Shaver drives for the Hot Wheels Drag Team up and down the country. Your AMX car is exact in every detail to the real thing—as is every Hot Wheels car. And there are over 50 to choose from! And only on Hot Wheels cars will you find these outstanding features: *Torsion bar suspension *Low friction wheel bearings *Detailed engines *Opening bonnets *Custom SPECTRAFLAME ® paint jobs *Speed slicks with racing stripes *Mag wheels *Special heavy track-hugging body. You name it, the Hot Wheel cars have it . . . and only the Hot Wheels cars. To make sure you get your FREE Hot Wheels AMX racing car, you have to enter the exciting competition on the next page. Remember, you cannot buy this AMX car in the shops. So enter now and you could be one of the lucky winners! And when it comes to racing track, it's only the Hot Wheels track that comes in orange 2' lengths. *You buy more and build as and when you want it. *It's the real true to life track that gives you the real race atmosphere *You can use Hot Wheels track indoors or outdoors. In a small space or a wide open space. *And what a range of accessories:— dare-devil loops, jump-ramps, stunt loops, dual-lane curves, flyovers and many others . . .



Hot Wheels – the fastest set of treads on the track.

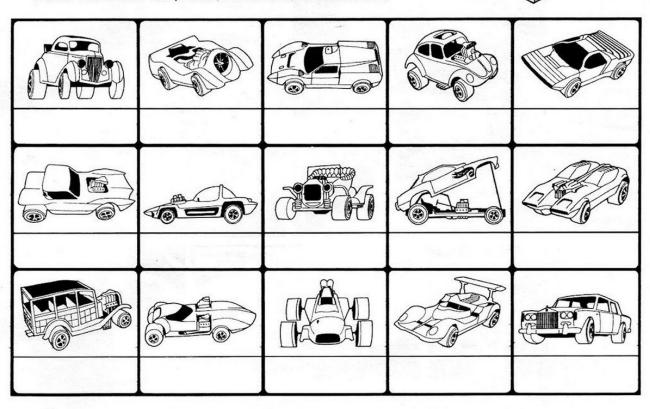
the combinations are endless. *Hot Wheels give you a larger range of these accessories than the imitators. Go with Hot Wheels-the original and best.

Here's all you have to do...

Just identify the 15 Hot Wheel cars below giving them their correct name. It's as simple as that. Look for this exciting new Hot Wheels pit-stop display in your local toyshop. There you'll find all 50 of the fabulous Hot Wheels cars on display. These 15 are among them.

After identifying the 15, complete the line below and cut out the page. Send it along with two Hot Wheels Collectors buttons—which come free with every Hot Wheels car—to the following address:

Mattel "Hot Wheels" Competition, PO Box No. 9, Faversham, Kent.



- 1 The Competition is open to all children resident in the United Kingdom, except to the families of the employees of Mattel Limited and their Advertising Agencies or anyone else connected with the running of the Competition.
- 2 All entries must be on official Entry Forms, in ink or ball point pen, and received at the official Competition Address by the Closing Date of 30th October, 1971.
- 3 The prizes will be awarded to those Competitors who have correctly identified the
- most Hot Wheels Cars. In the event that there are more best entries than prizes available the Panel of Judges will award the prizes to those qualifying Competitors who have submitted the most appropriate Advertising Slogans.

 4 All valid entries will be examined by the Panel of Judges—which will comprise the
- Panel of Judges—which will comprise the Advertisement Manager of the I.P.C. Juvenile Group a director of an Advertising Agency and the Sales Promotion Manager of Mattel—and they will award the prizes in accordance with Rule 3.
- 5 No responsibility can be accepted for entries which arrive late and proof of Posting cannot be accepted as proof of arrival. All altered, damaged and illegible entries will be disqualified.
- 6 Only one prize may be awarded per household.
 7 Winners will be notified by post, in due course, and a copy of the Prize Winners List will be sent to anyone enclosing a stamped addressed envelope with their entry.
- 8 All other directions contained elsewhere in this Advertisement are to be considered part of the Competition Rules.

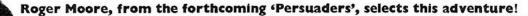
Complete the following advertising slogan in at least 8 or more words: ``I think Hot Wheels are great because: -in the following advertising slogan in at least 8 or more words: ``I think Hot Wheels are great because: -in the following advertising slogan in at least 8 or more words: ``I think Hot Wheels are great because: -in the following advertising slogan in at least 8 or more words: ``I think Hot Wheels are great because: -in the following advertising slogan in at least 8 or more words: ``I think Hot Wheels are great because: -in the following advertising slogan in the following advertising slogan in the following slo

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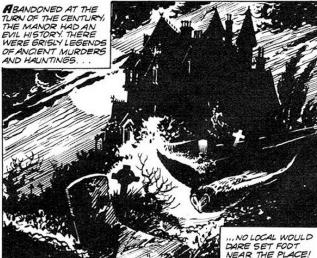


CAUSE WAY TOFEAR

"This week's story contains a thrill-a-minute and that's my favourite recipe for a mystery tale. Next week's ingredients are even more spine-chilling."





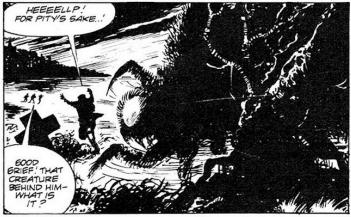
































Who is the mysterious cowled figure? Find out next week!

BRIGHTS BOFFINS

Amusing aerial action with the top secret trio . . .































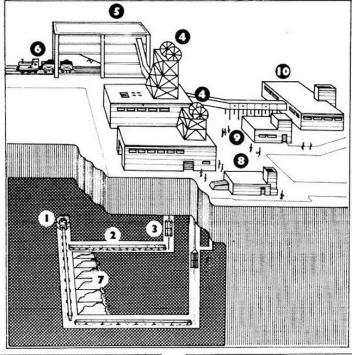
ONCE again the How! team, Bunty James, Jack Hargreaves, Jon Miller and Fred Dinenage, are all set to give you the fascinating answe to some of your questions. Congratulations to this week's winners—you'll each be receiving a £1 Hamlyn book shortly. If you haven already written in to the How! panel, why not do so now? You can win a £1 Hamlyn book of your choice for any question you have pullished. So get thinking and send your entry to: How! LOOK-IN, 247 Tottenham Court Road, London, WIP OAU.

HOW is coal formed?

P. Mylchreest, Liverpool.

Coal is the long-buried remains of ancient forests of the Carbonaceous period of 300-million years ago. At that time the climate was warm, humid and swampy, As the giant (up to 50 feet high) ferns died they were partially decomposed by the brackish waters, forming a kind of peat. As more plants died the peat was gradually compressed and eventually coal resulted. The higher the pressure, the better the quality of coal Today, future coal-fields are in the making in such areas as the 'Everglades' of Florida, USA.

Coal-mining is a highly-mechanical industry. The cutaway shows:
(1) Mostly automatic machinery mining the face; (2) Conveyor belts transporting coal to (3); (3) lift shaft by (4) the pit-head machinery. The coal is graded (5) and stored to be transported (6) away usually by train. (7) The used coal faces are filled with stone to prevent collapse. (8) Fresh air is pumped down by ventilating machinery.
(9) Maintenance workshops; (10) Wash-house: coal-mining is a dirty business!



HOW do cats see in the

Anthony Moore, Nuneaton, Wark Sorry, Anthony, they can't, if is pitch dark! But they can see f better than most mammals darkness because their eyes a especially suited to it. The pupi which become slits in bright ligh get very large in the dark a collect all the light that is goir Also, a cat's whiskers help it fe its way around in the dark.

HOW did card gam originate?

Paul Wright, Littleover, Derby.

We know that the Chinese we playing cards in A.D.969, becauthere is a written reference prove it. But many years befice that, they were using paper monso like cards that no one has be able to say for certain when the merger came! Cards were original used as much for fortune-telling for card games. Europe first caughten popular habit in the 14 century, but arguments still rate as to the way it arrived. The two most likely claimants are the Crusaders returning from the Ea or wandering gypsies.

HOW when and where was the first record made?

June Rampling, of London S.W.11.

The very first gramophone and recording was made in America by the great inventor, Thomas Edison, in 1877. He shouted: 'Mary had a little lamb' into a funnel and the vibrations of his voice were picked up on a revolving cylinder. For all the changes since his day, the principles of capturing sound are the same. Remember how Anita Harris makes her discs?



HOW long is it since the first theatre was built?

Carol Ramsden, Yorkshire.

The first ones were built in Ancient Greece about 2,500 years ago. Early audiences sat on a hill-side looking down at the plays, then stone or wooden tiers of seats were built on a hill in a semi-circle facing a circular acting space called the *orchestra*. Later, a hut was added like a temple. These theatres held over 10,000 people, but everyone could hear properly.

The first English theatre was built in 1756 beside Finsbury Fields, then on the outskirts of London, and was simply called The Theatre! The man responsible for this great event in our history was James Burbage, whose son, Richard, was to become the greatest actor of the day, the friend of Shakespeare, and the first player of Hamlet. For just a penny you could stand on the ground and for another penny you could watch from the gallery. For yet another penny, you could get a stool in one of the quieter galleries.

Earlier plays had been given in inn-yards, market places and churches.

HOW were spectacles found to help weak sight? Gregory Henderson, Felixstowe, Suffolk.



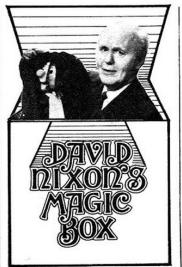
Above: Early spectacle sellers at work. Inset: Spectacles as worn in I

The Chinese had magnifying glasses set in frames 1000 years ago, and in Ancient Rome, the Emperor Nero is said to have had an eyeglass of beryl. Our spectacles really date from the 13th century. The Inventor may have been an ordinary workman—a glass-maker perhaps, who made glass discs and ornaments for windows and started

thinking! Early spectacles warmade of transparent quartz of beryl, then glass. They were fir made to be held, then fitted to the nose. Convex lenses came initially for helping long-sight people. By the 16th centur though, concave lenses were be used to conquer the short significant which afflicts so many million.

	ANGLIA	MIDLANDS	BORDER	CHANNEL	GRAMPIAN	GRANADA	WALES/WEST	LONDON	SCOTTISH
Friday	4.30 The Romper Room 4.50 Voyage To The Battom Of The Sea 7.00 The Sky's The Limit	4.40 Zingalong 4.55 Land of the Giants 7.00 The Sky's The Limit	4.40 Zingalong 4.55 Cowboy in Africa 7.00 The Sky's The Limit	4.00 Zingalong 4.10 Puffin 4.20 Mickey 4.55 Land of the Giants 8.00 Department S	4.50 H. R. Pufnstuf 5.20 Follyfoot 6.10 The Smith Family 7.00 Sky's The Limit	4.40 Thunderbirds 6.25 The Saint	5.06 Zingalong 5.19 Robin Hood 7.00 Friday Film	3.45 Zingalong 4.25 Skippy 4.55 Secret Squirrel 5.20 Follyfoot 7.00 On the Buses 7.30 Sky's the Limit	4.15 The Magic Elephant 4.55 Holiday Cavalcade 5.20 Skippy 6.10 Bonanza 7.30 The Saint
Thursday	4.35 Mel-O-Toons 4.50 Captain Scarlet 5.15 How 7.00 Survival 7.30 The Thursday Film	4.40 The Magic Ball 4.55 Skippy 5.15 How 7.00 Thursday Movie	4.40 Stories of Tuktu 4.55 The Lone Ranger 5.15 How 7.00 Feature Film	4.00 Origami 4.10 Puffin 4.20 Survival 4.50 Joe 90 5.15 How 7.00 Thursday Film	4.50 Rumblie Jumblie 5.20 How 6.10 Come Ashore 7.00 Thursday Film	4.40 Orlgami 4.50 Woobinda 5.15 How 6.30 Carry On Laughing	4.40 Tinkertainment 4.50 Pippi Longstocking 5.20 How 7.30 Mid-Week Movie	3.40 Origami 4.55 Woobinda 5.20 How 7.25 Thursday Film	4.15 Paulus 4.55 Sky Hawks 5.15 How 6.10 Mad Movies 7.05 Thursday Film
Wednesday	4.30 The Romper Room 4.55 Sooty 5.15 Bright's Boffins	4.40 Plupp 4.55 Sooty 5.15 Bright's Boffins 8.00 The Saint	4.40 Plupp 4.55 Sooty 5.15 Bright's Boffins	4.00 Winter of Enchantment 4.10 Puffin 4.55 Sooty 5.15 Bright's Boffins	3.43 Plupp 3.55 Skippy 4.55 Sooty 5.20 Bright's Boffins	4.40 Enchanted House 4.55 Sooty 5.15 Bright's Boffins 6.30 Randall & Hopkirk	4.40 Tinkertainment 4.55 Sooty 5.20 Bright's Boffins 8.00 The Champlons	3.40 Plupp 4.25 Matinee 4.55 Sooty 5.20 Bright's Boffins	4.15 The Enchanted House 4.55 Holiday Cavalcade 5.15 Bright's Boffins
Tuesday	4.40 Paulus 4.55 Little Big Time 5.15 How 7.00 The Tuesday Western	4.40 Hatty Town 4.55 Little Big Time 5.15 How 7.00 Star Movie	4.40 Hatty Town 4.55 Little Big Time 5.15 How 7.00 Feature Film	4.00 Sean The Leprechaun 4.10 Puffin 4.55 Little Big Time 5.15 How 7.00 Star Movie	3.43 Once Upon A Time 4.55 Little Blg Time 5.20 How 7.00 The Tuesday	4.40 Hatty Town 4.55 Little Big Time 5.15 How 6.25 Best of Lucy 6.50 British At War	4.40 Tinkertainment 4.55 Little Big Time 5.20 How 7.00 On The Buses	3.40 Once Upon A Time 4.55 Little Big Time 5.20 How 7.25 Tuesday Film	4.15 Plupp 4.55 Little Big Time 5.15 How 6.10 Hogan's Heroes 6.40 The Tuesday Film
Monday	4.30 The Romper Room 4.55 Flipper 5.15 Follyfoot 6.40 Opportunity Knocks!	4.40 Origami 4.55 Bush Boy 5.15 Follyfoot 6.40 Opportunity Knocks!	4.40 Origami 4.55 Skippy 5.15 Follyfoot 6.45 Opportunity Knocksl	4.10 Puffin 4.50 Woobinda 5.15 Follyfoot 6.45 Opportunity Knocks!	4.25 Origami 4.40 Hatty Town 4.55 Cowboy In Africa 6.40 Opportunity Knocksi	4.45 Once Upon a Time 4.55 Rocket Robin Hood 5.15 Follyfoot 6.15 Beverly Hillbillies 6.40 Opportunity Knocks!	4.55 Woobinda 5.19 Follyfoot 6.45 Opportunity Knocks!	4.40 Hatty Town 4.55 Lost in Space 6.40 Opportunity Knocks!	4.15 Sean the Leprechaun 4.55 Holiday Cavalcade 5.15 Follyfoot
Sunday	2.45 Sunday Film 4.40 The Golden Shot 5.35 Jamie 7.25 Doctor At Large	4.40 The Golden Shot 5.35 Forest Rangers 7.25 Doctor At Large	4.15 Joe 90 4.45 The Golden Shot 5.35 Jamie 7.25 Doctor At Large	2.15 Bonanza 3.10 Feature Film 4.45 Golden Shot 5.35 Jamie 7.25 Doctor At Large	2.50 Sunday Matinee 4.40 The Golden Shot 5.35 Jamle 7.25 Doctor At Large	2.45 The Great Stars 4.40 The Golden Shot 5.35 Jamie 7.25 Doctor At Large	3.15 Sunday Matinee 4.45 The Golden Shot 5.35 Jamie 7.25 Doctor At Large	3.50 Randall & Hopkirk Hopkirk 4.45 Golden Shot 5.35 Jamie 7.25 Doctor At Large	2.50 Feature Film 4.40 The Golden Shot 5.35 Jamie 7.25 Doctor At Large
Saturday	5.15 World of Sport 5.15 U.F.O. 7.15 Des O'Connor Show	12.40 Joe 90 1.15 World of Sport 5.15 U.F.O. 6.15 Feature Film	5.10 Please Siri 5.40 Please Siri 5.40 The Smith Family 6.15 Feature Film 8.00 Des O'Connor Show	5.15 World of Sport 5.15 Man from U.N.C.L.E. 6.15 On the Buses 6.47 Saturday Film	12.55 Twizzle 1.15 World of Sport 5.15 U.F.O. 6.15 Whittaker's World of Music	12.20 Stingray 1.15 World of Sport 5.10 U.F.O. 6.15 Bugs Bunny 6.30 Sky's the Limit 7.30 Des O'Connor	12.35 Bush Boy 1.15 World of Sport 5.10 Flintstones 6.15 Saturday Cinema 8.00 Des O'Connor	12.15 Thunderbirds 1.15 World of Sport 5.10 Catweazle 6.45 Des O'Connor Show	12.40 Phoenix Five 1.15 World of Sport 5.15 Cowboy In Africa 6.15 Smith Family 6.45 Saturday Movie 8.30 Please Siri
	ANGLIA	SanAJaiM	ВОКОЕК	CHENNE	манимаяр	€€	Y WALES/WEST	THAMES	нѕілтоэг

SOUTHERN	TYNE TEES	ULSTER	WESTWARD	YORKSHIRE
4.23 Cartoon 4.55 Forest Rangers 5.20 Follyfoot 7.00 Sky's The Limit 7.30 Friday Film	4.15 Flintstones 4.40 Zingalong 4.55 Land of the Glants 6.30 On the Buses 7.00 Sky's The Limit	4.30 Romper Room 4.55 Land Of The Giants 7.00 The Sky's The Limit 7.30 Laredo	4.00 Zingalong 4.10 Gus Honeybun 4.20 Mickey 4.55 Land of the Giants	4.40 Zingalong 4.50 Land Of The Giants 7.00 Sky's The Limit
4.23 Mr. Piper 4.55 Lone Ranger 5.20 How 7.35 The Saint	4.40 Origami 4.55 Forest Rangers 5.20 How 6.30 Nanny and the Professor 7.00 Thursday Film	4.30 Romper Room 4.55 H. R. Pufnstuf 5.20 How 6.10 Nanny and the Professor 7.00 Thursday Film	4.00 Origami 4.10 Gus Honeybun 4.20 Survival 4.50 Joe 90 5.15 How 7.00 Thursday Film	4.40 Orlgami 4.55 Bush Boy 5.20 How 6.30 F. Troop 7.00 Action Film
4.23 Cartoon 4.55 Sooty 5.20 Bright's Boffins 6.30 Survival	4.40 The Enchanted House 4.55 Sooty 5.20 Bright's Boffins	4.30 Romper Room 4.55 Sooty 5.20 Bright's Boffins 6.10 Best of Lucy	4.10 Gus Honeybun 4.55 Sooty 5.15 Bright's Boffins 7.00 Nanny and the Professor	4.40 The Enchanted House 4.55 Sooty 5.20 Bright's Boffins
4.23 Cartoon 4.55 Little Big Time 5.20 How 7.15 The Tuesday Film	4.15 My Three Sons 4.40 Diane's Magic Theatre 4.55 Little Big Time 5.20 U Are There 6.55 Tuesday Western	4.30 Romper Room 5.25 Little Big Time 5.20 How 6.10 Mad Movies 7.00 Mid-Week Movie	4.00 Sean the Leprechaun 4.10 Gus Honeybun 4.55 Little Big Time 5.15 How 7.00 Star Movie	4.40 Hatty Town 4.55 Little Big Time 5.20 How 6.30 The Smith Family 7.00 Tuesday Western
4.25 Best Of Lucy 4.55 Lost In Space 6.45 Opportunity Knocks!	4.40 Paulus 4.55 Skippy 5.20 Follyfoot 6.45 Opportunity Knocks!	4.30 Romper Room 4.55 Lone Ranger 5.20 Follyfoot 6.20 Get Smart 6.45 Opportunity Knocks!	4.00 Once Upon A Time 4.10 Gus Honeybun 4.50 Wooblinda 5.15 Follyfoot 6.45 Opportunity Knocks!	4.40 Once Upon a Time 4.55 Woobinda 5.20 Follyfoot 6.45 Opportunity Knocks!
3.00 Mad Movies 5.35 Jamie 7.25 On The Buses	3.10 Sunday Matinee 4.45 The Golden Shot 5.35 Jamie 7.25 Doctor At Large	3.15 Survival 3.15 Sunday Matinee 4.45 The Golden Shot 5.35 Jamie 7.25 Doctor At Large	3.16 Feature Film 4.45 The Golden Shot 5.35 Jamie 7.25 Doctor At Large	3.10 Sunday Cinema 4.45 The Golden Shot 5.35 Jamie 7.25 Doctor At Large
5.15 World of Sport 5.15 U.F.O. 6.15 The Golden Shot 7.05 Doctor At Large	12.25 Cartoon Carnival 1.15 World of Sport 5.10 Gunsmoke 6.15 Saturday Comedy 8.00 Des O'Connor Show	12.40 Woobinda 1.15 World of Sport 5.10 Greatest Show on Earth 6.15 Saturday Picture	11.40 Mr. Piper 1.15 World of Sport 5.15 Man from U.N.C.L.E. 6.15 On The Buses 6.45 Saturday Film	12.40 H. R. Pufnstuf 1.15 World of Sport 5.10 U.F.O. 6.15 Saturday Comedy 8.00 Des O'Connor Show
2001НЕВИ	TYNE TEES	RETIZIO S	WESTWARD	L LOBKSHIBE

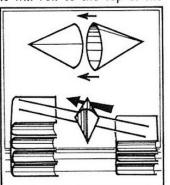


Can a round object roll up a hill? Here's a little bit of magic that seems to prove that it's possible.

Roll up! Roll up!

Make two cones of thin card, and glue them togethermouth to mouth-to create the object shown in the picture. Now arrange some books and two rods or strips of wood to make a slope, as illustrated. The important secret is that the ends of the rods must be closer together at the bottom of the slope than at the top.

Now put the double cone on the rods at the bottom, and it will roll to the top of the



slope. If it doesn't work the first time you may need to adjust the distances between the rods, or the angle of the slope.

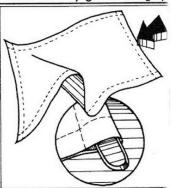
A Lolly-stick trick

You ask someone to sign their name on an ice-lolly stick, wrap it in your handkerchief, and then ask them to break it into several pieces, through the folds of the cloth. After a few of your own 'magic' words, you simply shake open the handkerchief, and out falls the signed lolly stick-all in one piece again.

The secret is another loll stick which you have secret pushed into the hem of the handkerchief, and this is the one that gets broken instead of the signed one. But put the handkerchief away quickly afterwards.

It's a Corker!

Challenge your friends to make an ordinary cork float upright in a bowl of water, and they will find that it insists on floating on its side. But if you take seven corks, hold them together in a bunch, push them under the water so they get thoroughly



wet, and then let them float on the surface—they will all remain upright. Amazing, eh?

Teaser Time ★ ★ ★ ★

Last week's problem was about a traveller and an uprooted sign-post — how did he replace the post so



that the four arms were point ing in the right directions Well-he knew the name the village that he had ju come from, so he erected t sign-post with that nar pointing back the way came, so the other arms we automatically correct.



For this week's puzzle you need two copper coins and a silver one—say two pennies and a 5p piece. Arrange them with the silver coin in the centre.

Your task is to get the silve coin out of the centre withou touching it or moving it. I'll te you how next week.



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