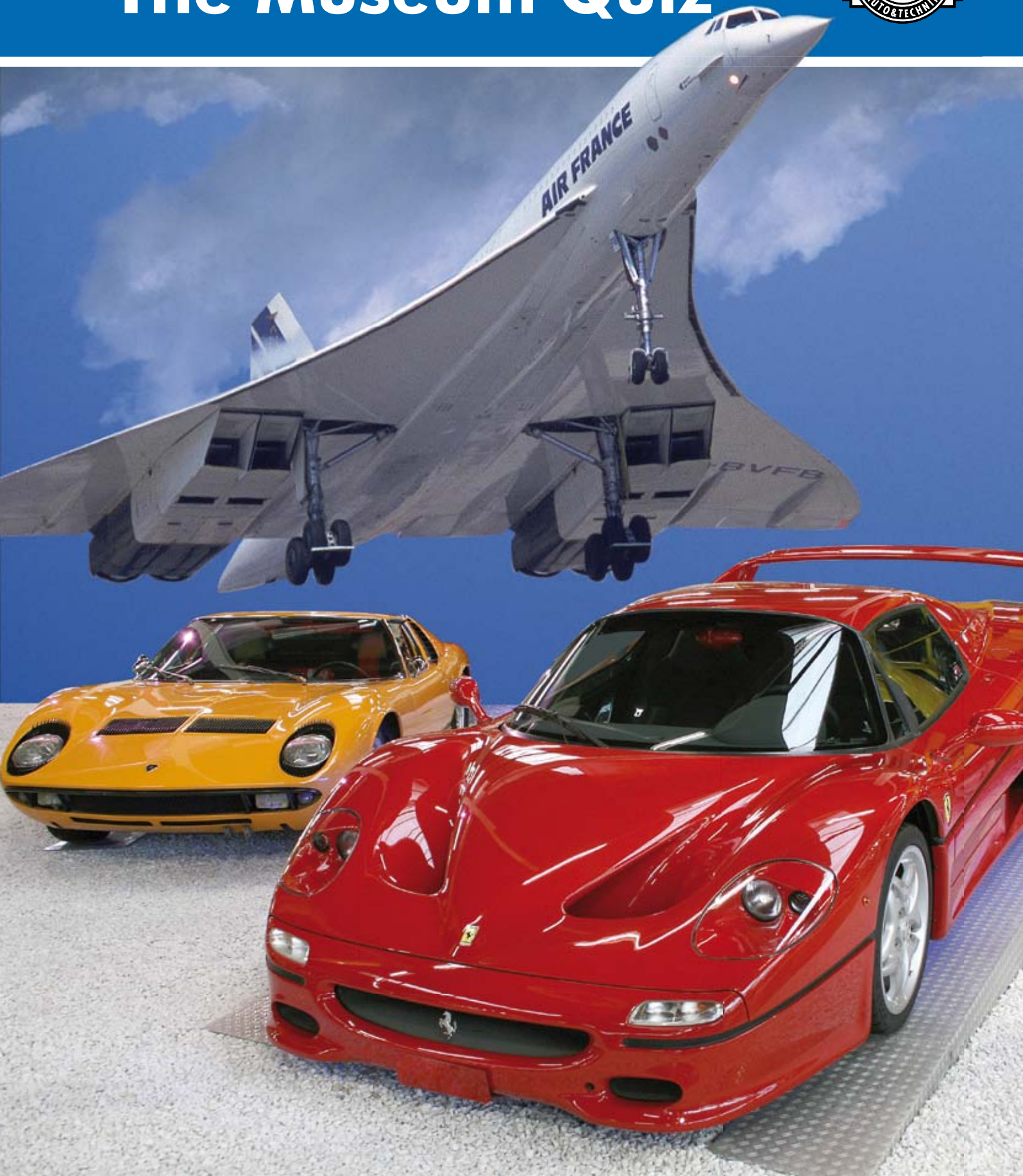
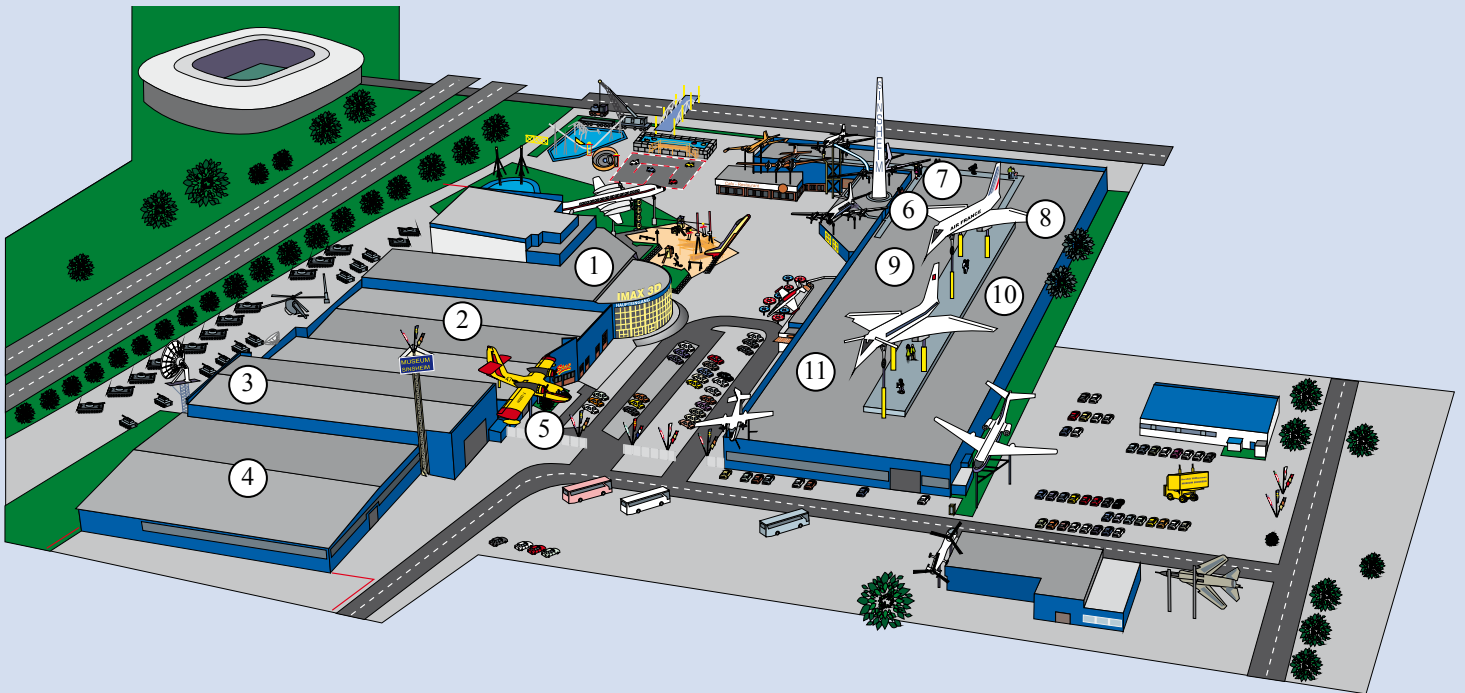


Auto & Technik MUSEUM SINSHEIM The Museum Quiz





- ① Questions 1 and 2: John Fowler steam tractor and Ford Galaxie police car
- ② Questions 3 and 4: DeLorean DMC-12 and American La France "Funkenblitz"
- ③ Question 5: Historic gang saw
- ④ Questions 6 and 7: Caterpillar CAT-D9 and LANZ tractor
- ⑤ Question 8: Canadair CL-215
- ⑥ Question 9: Imperator mobile
- ⑦ Question 10: Mountain locomotive "Crocodile"
- ⑧ Question 11: Mortier dance organ
- ⑨ (front part of hall 2) Questions 12 and 13: Ferrari F40 and record vehicle "The Blue Flame"
- ⑩ (roof of hall 2) Questions 14, 15 and 16: Tupolev Tu-144, CIS solar energy plant and Concorde F-BVFB
- ⑪ (back part of hall 2) Questions 17 to 24: Mors chain car, Benz Patent Motor Vehicle, one wheel motorcycle, training glider SG-38, Morris Minor delivery van, MAN submarine engine, Maffei steam locomotive and LANZ band saw

On the following pages you will find 24 questions which can be easily answered during a tour of the museum. The locations of the objects the questions are about are roughly indicated in the map shown above. To make it easier for you to find these items there is also a picture of the respective museum exhibit shown next to the question. Fill in the fields below with the letters of the correct answers. After you have correctly answered all questions a slogan consisting of 24 letters will result.

Have fun and:

1	2	3	4	5	6	7	8	9	10				
11	12	13	14	15	16	17	18	19	20	21	22	23	24

1. Steam tractor by John Fowler & Co.

The era of self-propelled street vehicles began long before the invention of the combustion engine. Already in 1769 the Frenchman Nicolas-Joseph Cugnot built a vehicle driven by a steam engine. This impressive tractor is also powered by steam.

In which English city was the manufacturer of the tractor, John Fowler & Co., once located (the name of the town is written on the vehicle)?

- M - London
- H - Manchester
- G - Leeds



2. Ford Galaxie police car

A strong engine performance of 325 hp and good handling characteristics made the Ford "Galaxie" an ideal vehicle not only for chasing criminals in the urban canyons of the large cities but also for routine patrols.

To which police department did the police car shown here once belong?

- O - Los Angeles Police Department
- A - Springfield Police Patrol
- E - New York Police Department



3. DeLorean DMC-12

At its introduction in 1981 this sports car caused a stir not only because of the gull wings but also because of its special body made of stainless steel.

Which science fiction movie made the DeLorean famous?

- H - Star Wars Episode VI - The return of the Jedi
- T - Back to the future
- G - Alien



4. American La France "Funkenblitz" ("sparks lightning")

At an age of 90 years this sports car competed in the vintage car rally Beijing - Paris in 1997. The road distance from Beijing to Paris is 16,000 km long and leads through the Himalayas. By the way, the first rally from Beijing to Paris was won by the Italian Scipione Borghese.

When was this first rally from Beijing to Paris started?

- W - 1897
- I - 1907
- S - 1927



5. Historic gang saw

This historic gang saw built in 1870 has been faithfully installed in the museum and can be set in motion by an electric motor.

By which means was the saw originally powered?

- N - Water power
- D - Diesel engine
- F - Wind power



6. Caterpillar CAT-D9

Despite its age this bulldozer built in 1956 is still fully operational and ready for levelling almost everything which stands in its way. Its power is impressively demonstrated by the video film shown on the video screen next to the bulldozer.

How heavy is this construction vehicle?

- T - 25 tons
- L - 30 tons
- C - 35 tons



7. LANZ tractors

The tractors built by LANZ in Manheim were popular agricultural vehicles which were widespread not only in Germany but in the whole world. Starting the engine, however, was a little bit tricky and took some time as is demonstrated by the video shown in the exhibition.

How was the LANZ tractor engine started (shown in the video)?

- R - One had to push the "Start" button
- O - The engine was heated with a flame and then started with the steering wheel
- E - The engine was heated until it started on its own



8. Canadair CL-215

This amphibious fire fighting plane served absolutely peaceful purposes and was only humorously called "water bomber". It was designed in the 1960s and mainly used for fighting forest fires.

How much water could the plane carry?

- U - 5,500 liters
- O - 10,000 liters
- L - 20,500 liters



9. Emperor mobile

In the entrance area of museum hall 2 you can find the "Emperor" mobile, a strange looking machine which makes a lot of noise.

What is the purpose of this machine?

- U - The chiming of the bells lured the cows from the meadow back to the barn
- F - The noise drove off rats and pests from factory halls
- C - Its only purpose is to entertain the museum visitors



10. Mountain locomotive "Krokodil" ("Crocodile")

The "Crocodile" locomotives were designed in the 1920s especially for steep railroad tracks in the mountains. They were very powerful and could master even narrow curves.

How were these locomotives powered?

- R - Steam engine
- H - Electric motor
- M - Diesel engine



11. Dance organ built by the Belgian company Mortier

This dance organ from 1910 is the largest Mortier organ in the world. It is equipped with 660 pipes, 120 basses, a complete drum kit, a saxophone and two accordions.

How is the organ controlled?

- B - Punched cards are electronically scanned by micro switches
- W - A cardboard band is pneumatically scanned
- G - Punched cards are optically scanned by a laser beam



12. Ferrari F-40

At its introduction in 1987, the Ferrari F-40 was probably the fastest car permitted for normal road use. 1331 units of this model were manufactured by Ferrari.

What is the maximum speed of the Ferrari F-40?

- I - 324 km/h
- O - 280 km/h
- W - 401 km/h



13. Record vehicle "The Blue Flame"

In October 1970, with "The Blue Blame" Gary Gabelich set a new world speed record for land vehicles. Until today it is the fastest vehicle powered by a rocket drive.

Which speed did "The Blue Flame" reach in 1970?

- E - 866 km/h
- A - 967 km/h
- T - 1001 km/h



14. Tupolev Tu-144

The Tupolev Tu-144 was the first passenger aircraft in the world which reached supersonic speed. The Tu-144 in Sinsheim is the only aircraft of this type in a museum in the Western world.

How much does the Tupolev Tu-144 weigh?

- R - 59 tons
- T - 101 tons
- E - 80 tons



15. CIS solar power plant

Between the Tupolev Tu-144 and the Concorde there is a solar power plant by the German company Würth Solar which converts solar light into electric energy. The plant consists of a fixed and a turnable part which follows the course of the sun. The plant produces about 4,500 kWh electric power per year.

How many CIS modules make up this plant?

- S - 55 modules
- T - 66 modules
- K - 77 modules



16. Concorde F-BVFB

In the summer of 2003 this Concorde supersonic aircraft from Air France was brought from Paris to Sinsheim by a spectacular action. After the final touchdown in Baden-Baden parts of the aircraft were dismantled and the fuselage of the "queen of the air" transported on water and on street to Sinsheim.



What is the wing span of the Concorde?

- E - 25.6 meters
- B - 62.3 meters
- G - 12.2 meters

17. Mors chain car

The Mors chain car from 1898 was given its name because it has small chains at the front wheels.



What was the function of these chains?

- Z - They allowed towing of the vehicle
- C - They pulled horseshoe nails out of the tires
- K - The chains are only for decoration

18. Benz Patent Motor Vehicle

The three-wheeled Benz Patent Motor Vehicle was the first automobile in the world with combustion engine. It was invented and built by Carl Benz in Mannheim, just a few kilometers away from the Auto & Technik Museum Sinsheim.



When did Carl Benz build this vehicle?

- O - 1786
- H - 1886
- P - 1906

19. One wheel motorcycle

Around 1894 the tinkerer Erich Edison Puton invented a truly unusual vehicle - a motorcycle with only one wheel. The replica at the Auto & Technik Museum Sinsheim is fully operational but only very few people have the courage to ride it.

How is this vehicle steered?

- B - By shifting the weight of the rider
- N - With the feet (just like riding a sleigh)
- R - With a steering wheel



20. Training glider SG-38

The training plane SG-38 "Öhringer Spatz" was an easy-to-operate glider which was used for training pilots.

What was the maximum payload the SG-38 could carry (the value is written on the plane)?

- O - 85 kg
- V - 95 kg
- F - 105 kg



21. Morris Minor delivery van

In 1937 it was absolutely possible that a delivery van had a power of 15 hp only, something which today is unthinkable. The Morris Minor delivery van at the Auto & Technik Museum Sinsheim was first employed by the British Mail and later by a German jam and marzipan manufacturer.

What is the color of the delivery van?

- I - Black
- L - Red
- P - Yellow



22. MAN submarine engine

Until 1913 this huge Diesel engine built by MAN in Augsburg powered a submarine. Thereafter it was used in a Bolivian mine for electric power generation.

To which navy did the submarine once powered by this engine belong?

- O - Austrian Navy
- A - Swiss Navy
- J - Czech Navy



23. Maffei steam locomotive

In Germany the locomotive era began in 1835 with the railroad link between Nuremberg and Fürth. The first locomotive in Germany, the "Eagle", was built by the Englishman George Stephenson and was quite slow. On the other hand, in 1919 the Maffei steam locomotive shown here reached a speed of over 140 km/h.

Between 1919 and 1935 this Maffei locomotive was employed by the:

- G - Badische Staatsbahn
- U - Schwäbische Eisenbahn
- O - Preußische Staatsbahn



24. LANZ band saw

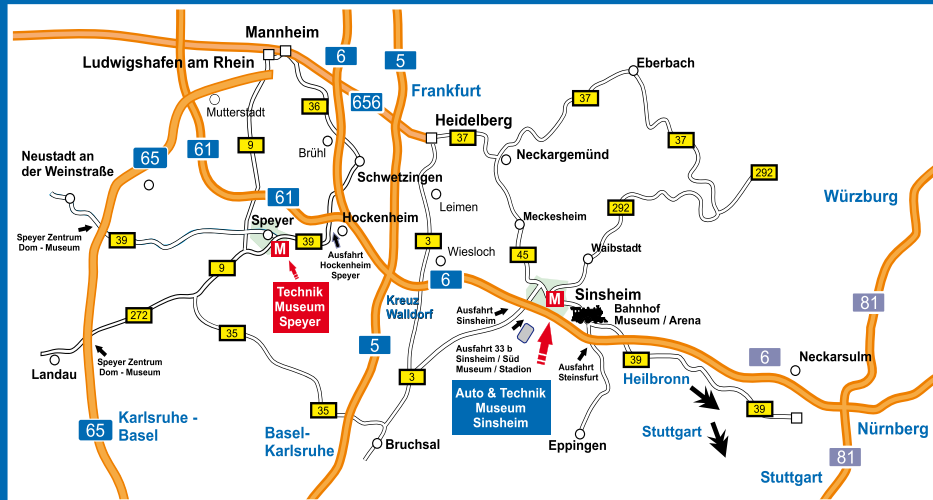
Until the 1970s, self-propelled sawing machines equipped with an engine powering both the vehicle and the saw were indispensable tools for preparing firewood in particular in rural areas. Frequently they were used directly in the woods to cut the chopped tree trunks into suitable pieces.

Where was the driver of the saw situated during the ride?

- Y - He was sitting on the working area of the saw at the front
- H - He had to walk besides the saw
- M - He was standing on a footboard mounted at the rear



Auto & Technik MUSEUM SINSHEIM



The Museum

A visit to the Auto & Technik Museum Sinsheim is a fascinating experience for young and old alike. Already from the distance the fully accessible supersonic aircraft Concorde and Tupolev 144 that are mounted on huge steel pillars in take off position on the museum roof welcome the visitors. In the museum halls there is something to be discovered for everyone: vintage cars and motorcycles of all eras, huge steam locomotives, formula 1 legends, racy sports cars, engines, agricultural vehicles, automatic musical instruments and much more. A highlight is a visit to the IMAX 3D movie theater which cannot be compared to a conventional cinema. With crystal clear images shown on screen as tall as a five story building the IMAX 3D experience draws you in with pictures so real you want to touch them, so powerful you can feel them.

Arrival

The Auto & Technik Museum Sinsheim is situated at the autobahn A6 between the cities of Mannheim and Heilbronn (autobahn exit 33b Sinsheim-Süd). There are sufficient free parking places for cars and coaches directly next to the museum. The museum can also easily be reached by public transport. Only a few minutes' walk away from the museum there is the train stop "Museum / Arena" at the railroad track Heilbronn-Heidelberg. **Dogs are not allowed in the museum and the IMAX movie theater!**

Opening hours

The Auto & Technik Museum Sinsheim is open 365 days a year from 9 am to 6 pm*

*On Saturdays, Sundays and bank holidays open from 9 am to 7 pm. On 24 and 31 December shorter opening hours.

Contact

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