1001 INVENTIONS

DISCOVER THE MUSLIM HERITAGE IN OUR WORLD

SECONDARY SCHOOL ACTIVITY SHEET

Hello, or as we say in the Muslim world, 'Assalaam Alaikuum' which means 'Peace Be with you'.

I am **Al-Jazari** (pronounced Al Jazza Ree) the inventor. Come with me to explore this wonderful exhibition and enjoy my quiz.

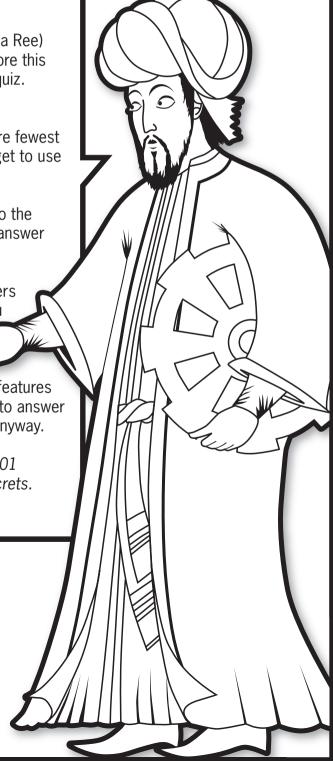
Look at the seven areas (zones)
 and go to the one where there are fewest
 people first. This will mean you get to use
 things easily.

 When you get to the zone, turn to the matching page in my guide and answer the questions.

• Don't cheat! I have put the answers at the end of each section. If you wish you can keep your own score. If not, use the quiz as a way of remembering some of the main features of the exhibition. You don't have to answer all the questions but have a go anyway.

 Don't forget to watch my film 1001 Inventions and the Library of Secrets.





HOME ZONE

The Home Zone shows how everyday life is influenced by people from a thousand years ago - like **Ibn al-Haytham**.

	ar rayaram.
0	What did he do that helped lead to the invention of the camera?
	Have you got a watch? How is it powered?
2	Look at Al-Jazari's Elephant Clock. How was it powered?
	Look at this image of Al-Jazari's Elephant Clock. Label the image to show which culture each part of the clock represents. To help you I have indicated the different cultural aspects with arrows.
b d	a c
	Home Game interactive, find all the things that influenced by Muslim civilisation.
	e are 20 to discover. many did you find in the time?
.neiderA – net	Answers I. He discovered how we see. S. Water 3. (a) The phoenix - Egyptian. (b) The Sulf (c) Chinese dragon. (d) Elephant driver. (e) Indian elephant.

SCHOOL ZONE

Welcome to the School Zone. Do you like school? I did but I suppose I was very clever. This is **Fatima al-Fihri**. She is one of the most famous women from the Muslim world. Try to find out:

rry to find out:	
What did she pay for?	When was it built?
Where was it built?	Was it for girls only?
where was it built?	4 Was it for girls only?
Name 3 of the subjects taught here:	
In Baghdad, they kept over 400,000 book It was one of the greatest libraries in the w	
Go to the machine with buttons that light up. This lights up some words in English, and the everyday words that have come from A languages to English. It may help to say the similar they are. Did this connection surprise	shows you some of Arabic or other eem aloud to see how
Now, one of my own favourites. Look for the handle – spin the wheel fast! What 4 word	
6 Where does the English word chemis	stry come from?
7 Draw the angles on these numbers:	
7	
7]	
8 Count how many angles there are on number – how are they related to the	
world 2. It was built in the ninth century 3. In Fez, Morocco. 4. No. it was sedicine, geography, physics, mathematics and engineering, history, languages bic world al-kimia 7. \(\subseteq \) \(\supseteq \) \(\subseteq \) \(\supseteq	Answers 1. One of the first universities in the force of the first universities in the force of the first universities of the first force of controlling of the first of the

MARKET ZONE

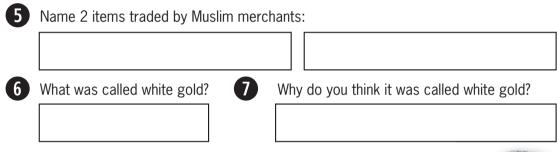
Welcome to the Market Zone - where you will find me again. People living under Muslim rule did so much to make markets what they are today.

Can you answer these questions?

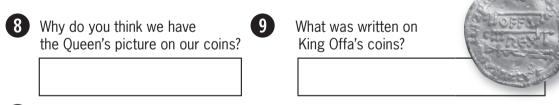
0	What did Taqi al-Din invent?	2	How did this help Muslims to grow new crops?
3	What were they?		
4	What did Muslim chemists do that them to make kerosene for their		

How did you get to the museum today? How long did it take you? I bet you did not come by camel or travel for 29 years. Well, a famous traveller called **Ibn Battuta** (Ib in bat too tah) did. He travelled 75,000 miles and visited 44 countries.

Try playing the Silk Route game, if you have time, and see how many coins you can collect.



Now look at the money section



A bag of coins can be quite heavy. Arab merchants travelled huge distances for trading. Which one of the following cunning inventions allowed them to transfer large amounts of money over great distances?

- Credit card.
- Cheque.
 - They trained huge eagles to fly between banks with bags of gold tied to their feet.

1. A six-cylinder water pump 2. It helped pump water to fields and towns. 3. Rice, peaches, approach as abergines. 4. They distilled oil to make kerosene. 5. Silk, cotton, fruit, spices, salt, suger, flour, ceramics, textiles, glass and carpets sugar, flour, ceramics, textiles, glass and carpets sugar, flour, ceramics, textiles, glass and carpets S. The Queen is the Head of State and all 8. The Conducted in her name.



1001 INVENTIONS AND THE LIBRARY OF SECRETS

I am the star of this film. What do you think of my performance? Here are five questions based on the film. Some answers you can simply get from the film and these are right and wrong. Others demand some thought and there is no right answer, just speculation.

NA/I				
What material do we use in he developed by Al-Zahrawi wh				
What was my greatest inventi Why do you think I was so pro				
				1
Why do you think the boy said was a United Nations clock?	l it			人
				*
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HOSPITAL ZONE

Have you been to hospital? I hope not. **Abbas ibn Firnas** the flier (remember him?!) had to go to hospital because he broke some bones in his back. Luckily though, hospitals were free at the time he lived as they are today.

In the Hospital Zone, you can find out how people like **Al-Zahrawi** (Al za ra wee) were improving health care centuries ago.

Label 4 similarities betweer	the doctors below.	
TRAVELLERS PROVISION CANON SET MEDICINE R M MEDICINE R M MEDICINE R M MEDICINE R M M M M M M M M M M M M	CLINICAL MEDICINE	
Can you think of any diseas		
need to be immunised again	nst?	
What year was immunisatio introduced to England?	n	
Where did the idea come from	om?	1 1

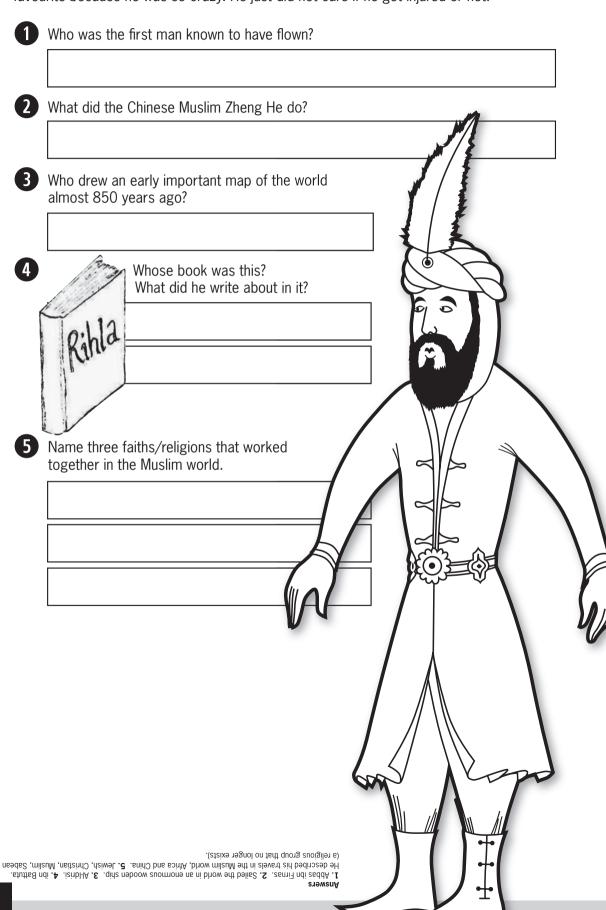
TOWN ZONE

In the Town Zone, Sinan the architect from Turkey will explain the things Muslims did to make towns better for us all to live in. Try to answer these questions:

cathedral in London? He was known	own to admire	Muslim domes a	and buildings.	
Water features were important in Why was water so cherished in				
Label each type of arch.				
	K			

WORLD ZONE

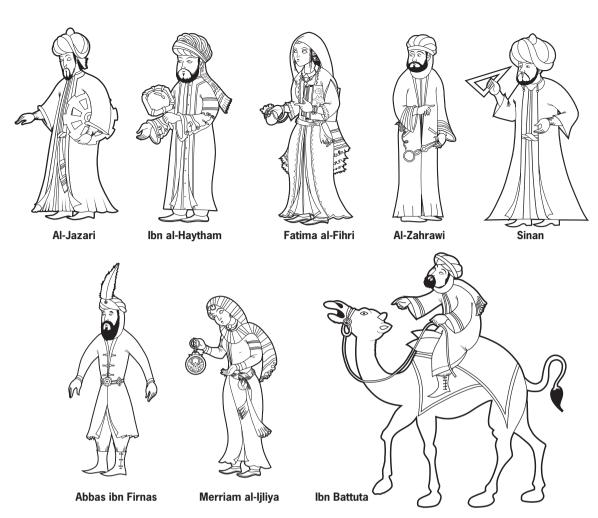
Hi again, let us move on to the World Zone. Muslims travelled much of the world and needed to develop instruments of navigation and draw accurate maps. Here is **Abbas ibn Firnas** - my favourite because he was so crazy. He just did not care if he got injured or not.



UNIVERSE ZONE

Let's have a look at one of the most amazing zones. In the Universe Zone, find out how Muslims have helped us to understand our universe. You can meet **Merriam al-Ijliya** who made astronomical instruments.

1 Where did Merriam work?	
What did she build?	
Name 2 things an astrolabe is used for.	
ay the Star game – ow many groups of stars can you find?	
any constellation names were originally in Arabic.	
Find the English name for each sign.	
hen is your birthday? Do you know how we work out th	
ate? Now our calendar is based upon the Sun. Muslims to the Moon to work out the number of days in a year.	; \ \ \ \ \
The Moon is very important to Muslims – why?	
What was Celebi's spectacular stunt for Sultan Murad's birthday?	المعامل المعاملات
	\neg / \setminus
. Cancer and Leo. 5. The calendar is based around the lunar (Moon) cycle and is use it to work out in which months they need to fast and when they should go on a ge, like halj. 6. He set off a gunpowderfuelled rocket which took him into the sky.	smilsuM



AND FINALLY, LIST AT LEAST FIVE THINGS THAT YOU HAVE LEARNT TODAY ABOUT THE MUSLIM CONTRIBUTION TO OUR MODERN WORLD.

It has been wonderful taking you round the exhibition. If you want to, you can add up your total score. Take this home as a souvenir. It was lovely to meet you.

And if you want to see me again, just visit www.1001inventions.com.



