



# MUSLIM INVENTIONS that shaped the MODERN WORLD

## ABBAS IBN FIRNAS

was the first person to make a real attempt to construct a flying machine and fly. In the 9th century he designed a winged apparatus, roughly resembling a bird costume. In his most famous trial near Cordoba in Spain, Firnas flew upward for a few moments, before falling to the ground and partially breaking his back. His designs would undoubtedly have been an inspiration for famed Italian artist and inventor Leonardo da Vinci's hundreds of years later.

Source of info. Google/ wikipedia



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### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 6.54   | 7.30  | 8.24    | 12.20         | 13.15 | 14.08  | 15.00 | 16.16   | 16.21 | 17.45  | 19.00 |
| 2    | 6.54   | 7.30  | 8.24    | 12.20         | 13.15 | 14.08  | 15.00 | 16.17   | 16.22 | 17.46  | 19.00 |
| 3    | 6.54   | 7.30  | 8.24    | 12.20         | 13.15 | 14.09  | 15.00 | 16.18   | 16.23 | 17.47  | 19.00 |
| 4    | 6.54   | 7.30  | 8.24    | 12.20         | 13.15 | 14.09  | 15.00 | 16.19   | 16.24 | 17.48  | 19.00 |
| 5    | 6.54   | 7.30  | 8.23    | 12.22         | 13.00 | 14.10  | 15.00 | 16.20   | 16.25 | 17.50  | 19.00 |
| 6    | 6.53   | 7.30  | 8.23    | 12.22         | 13.15 | 14.10  | 15.00 | 16.22   | 16.27 | 17.51  | 19.00 |
| 7    | 6.53   | 7.30  | 8.22    | 12.23         | 13.15 | 14.11  | 15.00 | 16.23   | 16.28 | 17.53  | 19.00 |
| 8    | 6.53   | 7.30  | 8.22    | 12.23         | 13.15 | 14.11  | 15.00 | 16.24   | 16.29 | 17.54  | 19.00 |
| 9    | 6.52   | 7.30  | 8.21    | 12.23         | 13.15 | 14.12  | 15.00 | 16.26   | 16.31 | 17.55  | 19.00 |
| 10   | 6.52   | 7.30  | 8.21    | 12.23         | 13.15 | 14.12  | 15.00 | 16.27   | 16.32 | 17.57  | 19.00 |
| 11   | 6.52   | 7.30  | 8.20    | 12.24         | 13.15 | 14.12  | 15.00 | 16.28   | 16.33 | 17.58  | 19.00 |
| 12   | 6.51   | 7.30  | 8.20    | 12.24         | 13.00 | 14.13  | 15.00 | 16.30   | 16.35 | 18.00  | 19.00 |
| 13   | 6.51   | 7.15  | 8.19    | 12.25         | 13.15 | 14.14  | 15.00 | 16.31   | 16.36 | 18.01  | 19.00 |
| 14   | 6.50   | 7.15  | 8.18    | 12.25         | 13.15 | 14.16  | 15.00 | 16.33   | 16.38 | 18.03  | 19.00 |
| 15   | 6.49   | 7.15  | 8.17    | 12.26         | 13.15 | 14.18  | 15.00 | 16.34   | 16.39 | 18.04  | 19.00 |
| 16   | 6.49   | 7.15  | 8.16    | 12.26         | 13.15 | 14.19  | 15.00 | 16.36   | 16.41 | 18.06  | 19.00 |
| 17   | 6.48   | 7.15  | 8.15    | 12.27         | 13.15 | 14.20  | 15.00 | 16.37   | 16.42 | 18.08  | 19.00 |
| 18   | 6.47   | 7.15  | 8.14    | 12.27         | 13.15 | 14.22  | 15.00 | 16.39   | 16.44 | 18.09  | 19.00 |
| 19   | 6.46   | 7.15  | 8.13    | 12.27         | 13.00 | 14.24  | 15.30 | 16.41   | 16.46 | 18.11  | 19.00 |
| 20   | 6.46   | 7.15  | 8.12    | 12.27         | 13.15 | 14.25  | 15.30 | 16.42   | 16.47 | 18.13  | 19.00 |
| 21   | 6.45   | 7.15  | 8.11    | 12.28         | 13.15 | 14.26  | 15.30 | 16.44   | 16.49 | 18.14  | 19.00 |
| 22   | 6.45   | 7.15  | 8.10    | 12.28         | 13.15 | 14.27  | 15.30 | 16.46   | 16.51 | 18.16  | 19.00 |
| 23   | 6.44   | 7.15  | 8.09    | 12.28         | 13.15 | 14.28  | 15.30 | 16.47   | 16.52 | 18.18  | 19.00 |
| 24   | 6.43   | 7.15  | 8.07    | 12.28         | 13.15 | 14.29  | 15.30 | 16.49   | 16.54 | 18.20  | 19.00 |
| 25   | 6.42   | 7.15  | 8.06    | 12.28         | 13.15 | 14.30  | 15.30 | 16.51   | 16.56 | 18.21  | 19.00 |
| 26   | 6.41   | 7.15  | 8.05    | 12.28         | 13.00 | 14.32  | 15.30 | 16.53   | 16.58 | 18.23  | 19.00 |
| 27   | 6.40   | 7.00  | 8.03    | 12.29         | 13.15 | 14.34  | 15.30 | 16.54   | 16.59 | 18.25  | 19.00 |
| 28   | 6.39   | 7.00  | 8.02    | 12.29         | 13.15 | 14.35  | 15.30 | 16.56   | 17.01 | 18.27  | 19.00 |
| 29   | 6.37   | 7.00  | 8.00    | 12.29         | 13.15 | 14.37  | 15.30 | 16.58   | 17.03 | 18.29  | 19.00 |
| 30   | 6.36   | 7.00  | 7.59    | 12.29         | 13.15 | 14.38  | 15.30 | 17.00   | 17.05 | 18.30  | 19.00 |
| 31   | 6.35   | 7.00  | 7.57    | 12.29         | 13.15 | 14.39  | 15.30 | 17.02   | 17.07 | 18.32  | 19.00 |

## January - 2024

JUMADIL UKHRA  
RAJAB UL MURAJJAB

1445 H

| Mon              | Tue | Wed | Thu | Fri | Sat     | Sun |
|------------------|-----|-----|-----|-----|---------|-----|
| 1                | 2   | 3   | 4   | 5   | 6       | 7   |
| JUMADIL UKHRA 19 | 20  | 21  | 22  | 23  | 24      | 25  |
| 8                | 9   | 10  | 11  | 12  | 13      | 14  |
| 26               | 27  | 28  | 29  | 30  | RAJAB 1 | 2   |
| 15               | 16  | 17  | 18  | 19  | 20      | 21  |
| 3                | 4   | 5   | 6   | 7   | 8       | 9   |
| 22               | 23  | 24  | 25  | 26  | 27      | 28  |
| 10               | 11  | 12  | 13  | 14  | 15      | 16  |
| 29               | 30  | 31  |     |     |         |     |
| 17               | 18  | 19  |     |     |         |     |

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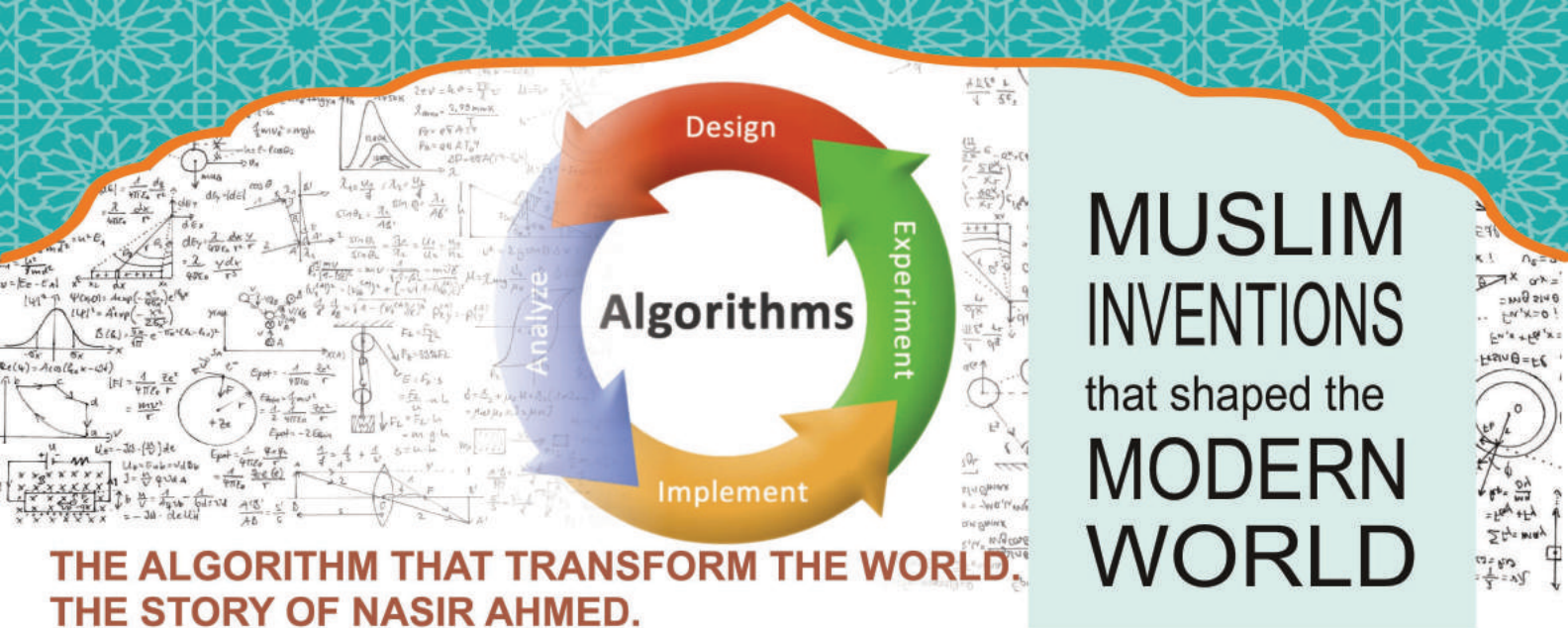
### Bank Details for Donation:

Account Name: Swansea Mosque

Sort Code: 20-84-41, Account Number: 33162567

IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22

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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## THE ALGORITHM THAT TRANSFORM THE WORLD. THE STORY OF NASIR AHMED.

Mr. Nasir Ahmed (born 1940 in Bangalore, India) is an Indian / American electrical engineer and computer scientist. He is Professor Emeritus of Electrical and Computer Engineering at University of New Mexico (UNM). He is best known for inventing the discrete cosine transform (DCT) in the early 1970s. The DCT is the most widely used data compression transformation, the basis for most digital media standards (image, video and audio) and commonly used in digital signal processing. He also described the discrete sine transform (DST), which is related to the DCT. Mr. Nasir Ahmad is originally from Bangalore, India. His work enables users of the internet to send/receive trillions of videos everyday. Without his discovery, the internet itself would be useless.

Source of info. Google/ wikipedia



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### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 6.34   | 7.00  | 7.56    | 12.30         | 13.15 | 14.40  | 16.00 | 17.02   | 17.07 | 18.34  | 19.15 |
| 2    | 6.32   | 7.00  | 7.54    | 12.30         | 13.00 | 14.41  | 16.00 | 17.05   | 17.10 | 18.36  | 19.15 |
| 3    | 6.31   | 7.00  | 7.53    | 12.30         | 13.15 | 14.42  | 16.00 | 17.07   | 17.12 | 18.38  | 19.15 |
| 4    | 6.30   | 7.00  | 7.51    | 12.30         | 13.15 | 14.44  | 16.00 | 17.09   | 17.14 | 18.40  | 19.15 |
| 5    | 6.28   | 7.00  | 7.49    | 12.30         | 13.15 | 14.45  | 16.00 | 17.11   | 17.16 | 18.41  | 19.15 |
| 6    | 6.27   | 7.00  | 7.48    | 12.30         | 13.15 | 14.47  | 16.00 | 17.13   | 17.18 | 18.43  | 19.15 |
| 7    | 6.25   | 7.00  | 7.46    | 12.30         | 13.15 | 14.48  | 16.00 | 17.14   | 17.19 | 18.45  | 19.15 |
| 8    | 6.24   | 7.00  | 7.44    | 12.30         | 13.15 | 14.50  | 16.00 | 17.16   | 17.21 | 18.47  | 19.15 |
| 9    | 6.22   | 7.00  | 7.42    | 12.30         | 13.00 | 14.51  | 16.00 | 17.18   | 17.23 | 18.48  | 19.15 |
| 10   | 6.21   | 6.45  | 7.40    | 12.30         | 13.15 | 14.52  | 16.00 | 17.20   | 17.25 | 18.51  | 19.30 |
| 11   | 6.19   | 6.45  | 7.39    | 12.30         | 13.15 | 14.54  | 16.00 | 17.22   | 17.27 | 18.53  | 19.30 |
| 12   | 6.17   | 6.45  | 7.37    | 12.30         | 13.15 | 14.55  | 16.00 | 17.24   | 17.29 | 18.55  | 19.30 |
| 13   | 6.16   | 6.45  | 7.35    | 12.30         | 13.15 | 14.57  | 16.00 | 17.25   | 17.30 | 18.56  | 19.30 |
| 14   | 6.14   | 6.45  | 7.33    | 12.30         | 13.15 | 14.58  | 16.00 | 17.27   | 17.32 | 18.58  | 19.30 |
| 15   | 6.12   | 6.45  | 7.31    | 12.30         | 13.15 | 15.00  | 16.00 | 17.29   | 17.34 | 19.00  | 19.30 |
| 16   | 6.10   | 6.45  | 7.29    | 12.30         | 13.00 | 15.01  | 16.00 | 17.31   | 17.36 | 19.01  | 19.30 |
| 17   | 6.09   | 6.30  | 7.27    | 12.30         | 13.15 | 15.03  | 16.00 | 17.33   | 17.38 | 19.02  | 19.30 |
| 18   | 6.07   | 6.30  | 7.25    | 12.30         | 13.15 | 15.04  | 16.00 | 17.35   | 17.40 | 19.03  | 19.30 |
| 19   | 6.05   | 6.30  | 7.23    | 12.30         | 13.15 | 15.05  | 16.00 | 17.36   | 17.41 | 19.04  | 19.30 |
| 20   | 6.03   | 6.30  | 7.21    | 12.30         | 13.15 | 15.07  | 16.00 | 17.38   | 17.43 | 19.05  | 19.30 |
| 21   | 6.01   | 6.30  | 7.19    | 12.30         | 13.15 | 15.08  | 16.00 | 17.40   | 17.45 | 19.06  | 19.30 |
| 22   | 5.59   | 6.30  | 7.17    | 12.30         | 13.15 | 15.09  | 16.00 | 17.42   | 17.47 | 19.07  | 19.30 |
| 23   | 5.57   | 6.30  | 7.15    | 12.29         | 13.00 | 15.11  | 16.00 | 17.44   | 17.49 | 19.08  | 19.30 |
| 24   | 5.55   | 6.15  | 7.13    | 12.29         | 13.15 | 15.12  | 16.00 | 17.45   | 17.50 | 19.09  | 19.30 |
| 25   | 5.53   | 6.15  | 7.10    | 12.29         | 13.15 | 15.14  | 16.00 | 17.47   | 17.52 | 19.10  | 19.30 |
| 26   | 5.51   | 6.15  | 7.08    | 12.29         | 13.15 | 15.15  | 16.00 | 17.49   | 17.54 | 19.11  | 19.30 |
| 27   | 5.49   | 6.15  | 7.06    | 12.29         | 13.15 | 15.16  | 16.00 | 17.51   | 17.56 | 19.12  | 19.30 |
| 28   | 5.47   | 6.15  | 7.04    | 12.29         | 13.15 | 15.18  | 16.00 | 17.53   | 17.58 | 19.13  | 19.30 |
| 29   | 5.47   | 6.15  | 7.04    | 12.29         | 13.15 | 15.18  | 16.00 | 17.53   | 17.58 | 19.13  | 19.30 |

## February - 2024

RAJAB UL MURAJJAB  
SHABAN UL MUAZZAM

1445 H

| Mon | Tue | Wed | Thu      | Fri | Sat | Sun      |
|-----|-----|-----|----------|-----|-----|----------|
|     |     |     | 1        | 2   | 3   | 4        |
|     |     |     | RAJAB 20 | 21  | 22  | 23       |
| 5   | 6   | 7   | 8        | 9   | 10  | 11       |
| 24  | 25  | 26  | 27       | 28  | 29  | SHABAN 1 |
| 12  | 13  | 14  | 15       | 16  | 17  | 18       |
| 2   | 3   | 4   | 5        | 6   | 7   | 8        |
| 19  | 20  | 21  | 22       | 23  | 24  | 25       |
| 9   | 10  | 11  | 12       | 13  | 14  | 15       |
| 26  | 27  | 28  | 29       |     |     |          |
| 16  | 17  | 18  | 19       |     |     |          |

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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## MUHAMMAD IBN ZAKARIYA AL-RAZI

One of the most influential of these scientists was Muhammad ibn Zakariya al-Razi, also known as Rasis or Rhazes. Born in Rey (near present-day Teheran) in 865, Rasis rose in ranks to become the chief director of a hospital there and also briefly held the same position in Baghdad. A physician and a learned scholar, Rasis contributed not only to medicine but also to the fields of chemistry, physics, biology and philosophy. He was the first to write up limited or extensive notes on diseases such as smallpox and chickenpox, a pioneer in ophthalmology, author of the first book on pediatrics, making leading contributions in inorganic and organic chemistry, also the author of several philosophical works.

Source of info. Google/ wikipedia



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UK Registered Charity No: 1105355

### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 5.47   | 6.15  | 7.04    | 12.29         | 13.00 | 15.18  | 16.30 | 17.54   | 17.59 | 19.13  | 19.45 |
| 2    | 5.45   | 6.15  | 7.03    | 12.28         | 13.15 | 15.18  | 16.30 | 17.56   | 18.01 | 19.13  | 19.45 |
| 3    | 5.43   | 6.15  | 7.02    | 12.28         | 13.15 | 15.19  | 16.30 | 17.58   | 18.03 | 19.14  | 19.45 |
| 4    | 5.41   | 6.15  | 7.00    | 12.28         | 13.15 | 15.20  | 16.30 | 18.00   | 18.05 | 19.15  | 19.45 |
| 5    | 5.39   | 6.15  | 6.57    | 12.28         | 13.15 | 15.21  | 16.30 | 18.02   | 18.07 | 19.16  | 19.45 |
| 6    | 5.37   | 6.00  | 6.55    | 12.27         | 13.15 | 15.23  | 16.30 | 18.03   | 18.08 | 19.17  | 19.45 |
| 7    | 5.35   | 6.00  | 6.53    | 12.27         | 13.15 | 15.24  | 16.30 | 18.05   | 18.10 | 19.18  | 19.45 |
| 8    | 5.32   | 6.00  | 6.51    | 12.27         | 13.00 | 15.25  | 16.30 | 18.07   | 18.12 | 19.19  | 19.45 |
| 9    | 5.30   | 6.00  | 6.48    | 12.27         | 13.15 | 15.26  | 16.30 | 18.09   | 18.14 | 19.20  | 20.00 |
| 10   | 5.28   | 5.45  | 6.46    | 12.27         | 13.15 | 15.27  | 16.30 | 18.10   | 18.15 | 19.21  | 20.00 |
| 11   | 5.26   | 5.45  | 6.44    | 12.27         | 13.15 | 15.29  | 16.30 | 18.12   | 18.17 | 19.23  | 20.00 |
| 12   | 5.23   | 5.45  | 6.42    | 12.26         | 13.15 | 15.30  | 16.30 | 18.14   | 18.19 | 19.24  | 20.00 |
| 13   | 5.21   | 5.45  | 6.39    | 12.26         | 13.15 | 15.31  | 16.30 | 18.15   | 18.20 | 19.26  | 20.00 |
| 14   | 5.19   | 5.45  | 6.37    | 12.25         | 13.15 | 15.32  | 16.30 | 18.17   | 18.22 | 19.28  | 20.00 |
| 15   | 5.16   | 5.45  | 6.35    | 12.25         | 13.00 | 15.33  | 16.30 | 18.19   | 18.24 | 19.29  | 20.00 |
| 16   | 5.14   | 5.45  | 6.33    | 12.25         | 13.15 | 15.34  | 17.00 | 18.21   | 18.26 | 19.31  | 20.15 |
| 17   | 5.12   | 5.30  | 6.30    | 12.25         | 13.15 | 15.35  | 17.00 | 18.22   | 18.27 | 19.33  | 20.15 |
| 18   | 5.09   | 5.30  | 6.28    | 12.24         | 13.15 | 15.37  | 17.00 | 18.24   | 18.29 | 19.34  | 20.15 |
| 19   | 5.07   | 5.30  | 6.26    | 12.24         | 13.15 | 15.38  | 17.00 | 18.26   | 18.31 | 19.36  | 20.15 |
| 20   | 5.05   | 5.30  | 6.23    | 12.24         | 13.15 | 15.39  | 17.00 | 18.27   | 18.32 | 19.38  | 20.15 |
| 21   | 5.02   | 5.30  | 6.21    | 12.24         | 13.15 | 15.40  | 17.00 | 18.29   | 18.34 | 19.39  | 20.15 |
| 22   | 5.00   | 5.30  | 6.19    | 12.23         | 13.00 | 15.41  | 17.00 | 18.31   | 18.36 | 19.41  | 20.15 |
| 23   | 4.58   | 5.20  | 6.16    | 12.23         | 13.15 | 15.42  | 17.00 | 18.33   | 18.38 | 19.43  | 20.15 |
| 24   | 4.55   | 5.15  | 6.14    | 12.23         | 13.15 | 15.43  | 17.00 | 18.34   | 18.39 | 19.44  | 20.15 |
| 25   | 4.53   | 5.15  | 6.12    | 12.23         | 13.15 | 15.44  | 17.00 | 18.36   | 18.41 | 19.46  | 20.15 |
| 26   | 4.50   | 5.10  | 6.09    | 12.22         | 13.15 | 15.45  | 17.00 | 18.38   | 18.43 | 19.48  | 20.15 |
| 27   | 4.48   | 5.10  | 6.07    | 12.22         | 13.15 | 15.46  | 17.00 | 18.39   | 18.44 | 19.50  | 20.15 |
| 28   | 4.45   | 5.05  | 6.05    | 12.21         | 13.15 | 15.47  | 17.00 | 18.41   | 18.46 | 19.52  | 20.15 |
| 29   | 4.43   | 5.05  | 6.02    | 12.21         | 13.00 | 15.48  | 17.00 | 18.43   | 18.48 | 19.54  | 20.15 |
| 30   | 4.40   | 5.00  | 6.00    | 12.20         | 13.15 | 15.49  | 17.00 | 18.44   | 18.49 | 19.55  | 20.15 |
| 31   | 5.38   | 6.00  | 6.58    | 13.20         | 13.40 | 16.50  | 18.00 | 19.46   | 19.51 | 20.57  | 21.15 |

## March - 2024

SHABAN UL MUAZZAM  
RAMAZAN UL MUBARAK

1445 H

| Mon       | Tue | Wed | Thu | Fri       | Sat | Sun |
|-----------|-----|-----|-----|-----------|-----|-----|
|           |     |     |     | 1         | 2   | 3   |
|           |     |     |     | SHABAN 20 | 21  | 22  |
| 4         | 5   | 6   | 7   | 8         | 9   | 10  |
| 23        | 24  | 25  | 26  | 27        | 28  | 29  |
| 11        | 12  | 13  | 14  | 15        | 16  | 17  |
| Ramazan 1 | 2   | 3   | 4   | 5         | 6   | 7   |
| 18        | 19  | 20  | 21  | 22        | 23  | 24  |
| 8         | 9   | 10  | 11  | 12        | 13  | 14  |
| 25        | 26  | 27  | 28  | 29        | 30  | 31  |
| 15        | 16  | 17  | 18  | 19        | 20  | 21  |

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Br Layas: 07792 277208

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### Bank Details for Donation:

Account Name: Swansea Mosque

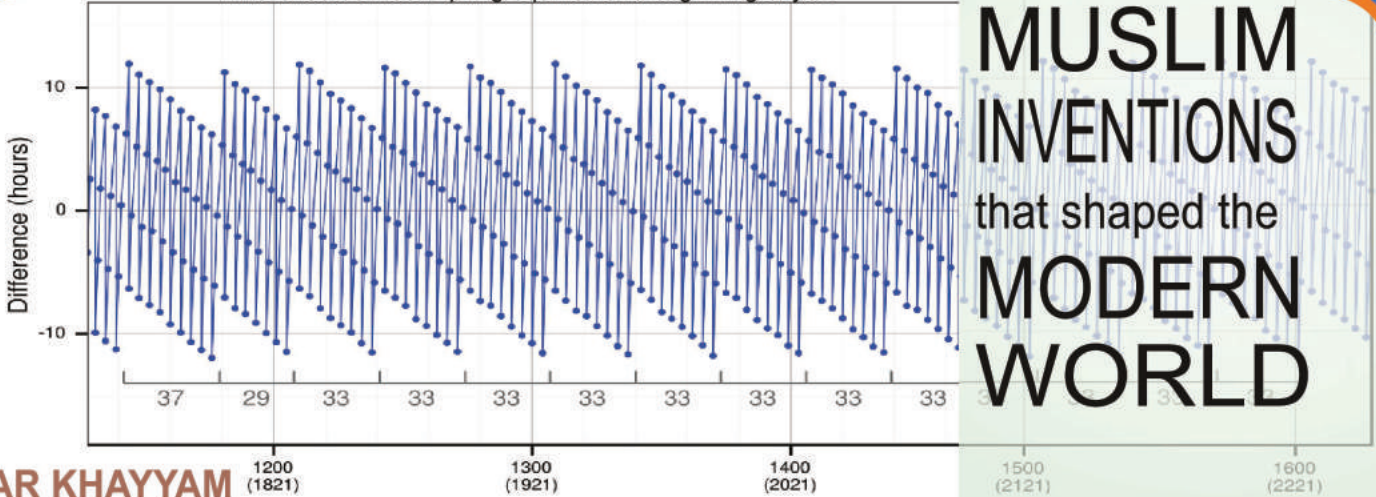
Sort Code: 20-84-41, Account Number: 33162567

IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22

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## Leap Shifting of the Jalaali Calendar

Difference between spring equinox and beginning of year



# MUSLIM INVENTIONS that shaped the MODERN WORLD

## OMAR KHAYYAM

As a mathematician, he is most notable for his work on the classification and solution of cubic equations, where he provided geometric solutions by the intersection of conics. Khayyam also contributed to the understanding of the parallel axiom. As an astronomer, he designed the Jalali calendar, a solar calendar with a very precise 33-year intercalation cycle that provided the basis for the Persian calendar that is still in use after nearly a millennium.

Source of info. Google/ wikipedia



# SWANSEA MOSQUE AND ISLAMIC COMMUNITY CENTRE

159A St Helens Road, Swansea, SA1 4DG, United Kingdom

Tel: 01792 654 532 | [www.swanseamosque.org](http://www.swanseamosque.org) | [info@swanseamosque.org](mailto:info@swanseamosque.org)

UK Registered Charity No: 1105355

### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 5.35   | 6.00  | 6.56    | 13.20         | 13.40 | 16.51  | 18.00 | 19.48   | 19.53 | 20.58  | 21.15 |
| 2    | 5.33   | 6.00  | 6.53    | 13.20         | 13.40 | 16.52  | 18.00 | 19.49   | 19.54 | 21.00  | 21.30 |
| 3    | 5.30   | 6.00  | 6.51    | 13.20         | 13.40 | 16.53  | 18.00 | 19.51   | 19.56 | 21.01  | 21.30 |
| 4    | 5.28   | 6.00  | 6.49    | 13.20         | 13.40 | 16.54  | 18.00 | 19.53   | 19.58 | 21.03  | 21.30 |
| 5    | 5.25   | 6.00  | 6.46    | 13.20         | 13.30 | 16.54  | 18.00 | 19.54   | 19.59 | 21.05  | 21.30 |
| 6    | 5.23   | 5.45  | 6.44    | 13.20         | 13.40 | 16.55  | 18.00 | 19.56   | 20.06 | 21.06  | 21.30 |
| 7    | 5.20   | 5.40  | 6.42    | 13.20         | 13.40 | 16.56  | 18.00 | 19.58   | 20.08 | 21.08  | 21.30 |
| 8    | 5.18   | 5.40  | 6.39    | 13.20         | 13.40 | 16.57  | 18.00 | 20.00   | 20.10 | 21.10  | 21.30 |
| 9    | 5.15   | 5.35  | 6.37    | 13.19         | 13.40 | 16.58  | 18.00 | 20.01   | 20.11 | 21.11  | 21.30 |
| 10   | 5.12   | 5.35  | 6.35    | 13.19         | 13.40 | 16.59  | 18.00 | 20.03   | 20.13 | 21.13  | 21.30 |
| 11   | 5.10   | 5.30  | 6.33    | 13.19         | 13.40 | 17.00  | 18.00 | 20.05   | 20.15 | 21.15  | 21.30 |
| 12   | 5.07   | 5.30  | 6.30    | 13.19         | 13.30 | 17.01  | 18.00 | 20.06   | 20.16 | 21.16  | 21.45 |
| 13   | 5.05   | 5.25  | 6.28    | 13.19         | 13.40 | 17.01  | 18.00 | 20.08   | 20.18 | 21.18  | 21.45 |
| 14   | 5.02   | 5.25  | 6.26    | 13.19         | 13.40 | 17.02  | 18.30 | 20.10   | 20.20 | 21.20  | 21.45 |
| 15   | 5.00   | 5.20  | 6.24    | 13.18         | 13.40 | 17.03  | 18.30 | 20.11   | 20.21 | 21.22  | 21.45 |
| 16   | 4.57   | 5.20  | 6.22    | 13.18         | 13.40 | 17.04  | 18.30 | 20.13   | 20.23 | 21.24  | 21.45 |
| 17   | 4.55   | 5.15  | 6.19    | 13.18         | 13.40 | 17.05  | 18.30 | 20.15   | 20.25 | 21.26  | 21.45 |
| 18   | 4.52   | 5.15  | 6.17    | 13.18         | 13.40 | 17.05  | 18.30 | 20.16   | 20.26 | 21.27  | 21.45 |
| 19   | 4.49   | 5.10  | 6.15    | 13.18         | 13.30 | 17.06  | 18.30 | 20.18   | 20.28 | 21.28  | 21.45 |
| 20   | 4.47   | 5.10  | 6.13    | 13.18         | 13.40 | 17.07  | 18.30 | 20.20   | 20.30 | 21.30  | 22.00 |
| 21   | 4.44   | 5.05  | 6.11    | 13.17         | 13.40 | 17.08  | 18.30 | 20.21   | 20.31 | 21.32  | 22.00 |
| 22   | 4.42   | 5.15  | 6.09    | 13.17         | 13.40 | 17.09  | 18.30 | 20.23   | 20.28 | 21.33  | 22.00 |
| 23   | 4.39   | 5.15  | 6.06    | 13.17         | 13.40 | 17.09  | 18.30 | 20.25   | 20.30 | 21.35  | 22.00 |
| 24   | 4.36   | 5.15  | 6.04    | 13.17         | 13.40 | 17.10  | 18.30 | 20.26   | 20.31 | 21.36  | 22.00 |
| 25   | 4.34   | 5.15  | 6.02    | 13.17         | 13.40 | 17.11  | 18.30 | 20.28   | 20.33 | 21.38  | 22.00 |
| 26   | 4.31   | 5.15  | 6.00    | 13.17         | 13.30 | 17.12  | 18.30 | 20.30   | 20.35 | 21.40  | 22.00 |
| 27   | 4.29   | 5.15  | 5.58    | 13.16         | 13.40 | 17.13  | 18.30 | 20.31   | 20.36 | 21.41  | 22.00 |
| 28   | 4.26   | 5.00  | 5.56    | 13.16         | 13.40 | 17.13  | 18.30 | 20.33   | 20.38 | 21.43  | 22.00 |
| 29   | 4.24   | 5.00  | 5.54    | 13.16         | 13.40 | 17.14  | 18.30 | 20.35   | 20.40 | 21.45  | 22.10 |
| 30   | 4.21   | 5.00  | 5.52    | 13.16         | 13.40 | 17.14  | 18.30 | 20.36   | 20.41 | 21.46  | 22.10 |

## April - 2024

RAMAZAN UL MUBARAK  
SHAWWAL UL MUKARRAM

1445 H

| Mon        | Tue | Wed       | Thu | Fri | Sat | Sun |
|------------|-----|-----------|-----|-----|-----|-----|
| 1          | 2   | 3         | 4   | 5   | 6   | 7   |
| Ramazan 22 | 23  | 24        | 25  | 26  | 27  | 28  |
| 8          | 9   | 10        | 11  | 12  | 13  | 14  |
| 29         | 30  | Shawwal 1 | 2   | 3   | 4   | 5   |
| 15         | 16  | 17        | 18  | 19  | 20  | 21  |
| 6          | 7   | 8         | 9   | 10  | 11  | 12  |
| 22         | 23  | 24        | 25  | 26  | 27  | 28  |
| 13         | 14  | 15        | 16  | 17  | 18  | 19  |
| 29         | 30  |           |     |     |     |     |
| 20         | 21  |           |     |     |     |     |

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SCAN ME for contact details

01792 720170

### Bank Details for Donation:

Account Name: Swansea Mosque

Sort Code: 20-84-41, Account Number: 33162567

IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22

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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## ISMAIL AL-JAZARI

Many of the basics of modern automatics were first put to use in the Muslim world, including the revolutionary crank-connecting rod system. By converting rotary motion to linear motion, the crank enables the lifting of heavy objects with relative ease. This technology, discovered by Al-Jazari in the 12th century, exploded across the globe, leading to everything from the bicycle to the internal combustion engine.

Source of info. Google/ wikipedia



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UK Registered Charity No: 1105355

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| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 4.19   | 4.45  | 5.50    | 13.16         | 13.40 | 17.15  | 19.00 | 20.38   | 20.43 | 21.49  | 22.10 |
| 2    | 4.16   | 4.45  | 5.48    | 13.16         | 13.40 | 17.16  | 19.00 | 20.40   | 20.45 | 21.50  | 22.10 |
| 3    | 4.13   | 4.45  | 5.46    | 13.14         | 13.30 | 17.16  | 19.00 | 20.41   | 20.46 | 21.52  | 22.10 |
| 4    | 4.11   | 4.45  | 5.44    | 13.14         | 13.40 | 17.17  | 19.00 | 20.43   | 20.48 | 21.54  | 22.10 |
| 5    | 4.08   | 4.45  | 5.43    | 13.14         | 13.40 | 17.18  | 19.00 | 20.45   | 20.50 | 21.55  | 22.10 |
| 6    | 4.06   | 4.45  | 5.41    | 13.14         | 13.40 | 17.18  | 19.00 | 20.46   | 20.51 | 21.57  | 22.20 |
| 7    | 4.03   | 4.45  | 5.39    | 13.14         | 13.40 | 17.19  | 19.00 | 20.48   | 20.53 | 21.59  | 22.20 |
| 8    | 4.01   | 4.45  | 5.37    | 13.14         | 13.40 | 17.20  | 19.00 | 20.49   | 20.54 | 22.00  | 22.20 |
| 9    | 3.59   | 4.45  | 5.35    | 13.14         | 13.40 | 17.20  | 19.00 | 20.51   | 20.56 | 22.02  | 22.20 |
| 10   | 3.56   | 4.45  | 5.34    | 13.14         | 13.30 | 17.21  | 19.00 | 20.53   | 20.58 | 22.03  | 22.20 |
| 11   | 3.54   | 4.45  | 5.32    | 13.14         | 13.40 | 17.22  | 19.00 | 20.54   | 20.59 | 22.05  | 22.20 |
| 12   | 3.51   | 4.30  | 5.30    | 13.14         | 13.40 | 17.22  | 19.00 | 20.56   | 21.01 | 22.07  | 22.20 |
| 13   | 3.49   | 4.30  | 5.28    | 13.14         | 13.40 | 17.23  | 19.00 | 20.57   | 21.02 | 22.09  | 22.30 |
| 14   | 3.46   | 4.30  | 5.27    | 13.14         | 13.40 | 17.24  | 19.00 | 20.59   | 21.04 | 22.10  | 22.30 |
| 15   | 3.44   | 4.30  | 5.25    | 13.14         | 13.40 | 17.24  | 19.00 | 21.00   | 21.05 | 22.11  | 22.30 |
| 16   | 3.42   | 4.30  | 5.24    | 13.14         | 13.40 | 17.25  | 19.00 | 21.02   | 21.07 | 22.13  | 22.30 |
| 17   | 3.39   | 4.30  | 5.22    | 13.14         | 13.30 | 17.25  | 19.00 | 21.03   | 21.08 | 22.15  | 22.30 |
| 18   | 3.37   | 4.30  | 5.21    | 13.14         | 13.40 | 17.26  | 19.00 | 21.05   | 21.10 | 22.16  | 22.30 |
| 19   | 3.35   | 4.15  | 5.19    | 13.14         | 13.40 | 17.27  | 19.00 | 21.06   | 21.11 | 22.18  | 22.30 |
| 20   | 3.33   | 4.15  | 5.18    | 13.14         | 13.40 | 17.27  | 19.00 | 21.08   | 21.13 | 22.19  | 22.30 |
| 21   | 3.30   | 4.15  | 5.16    | 13.14         | 13.40 | 17.28  | 19.00 | 21.09   | 21.14 | 22.21  | 22.40 |
| 22   | 3.28   | 4.15  | 5.15    | 13.14         | 13.40 | 17.28  | 19.00 | 21.10   | 21.15 | 22.22  | 22.40 |
| 23   | 3.26   | 4.15  | 5.14    | 13.14         | 13.40 | 17.29  | 19.00 | 21.12   | 21.17 | 22.24  | 22.40 |
| 24   | 3.24   | 4.15  | 5.12    | 13.14         | 13.30 | 17.30  | 19.00 | 21.13   | 21.18 | 22.25  | 22.40 |
| 25   | 3.22   | 4.15  | 5.11    | 13.14         | 13.40 | 17.30  | 19.00 | 21.15   | 21.20 | 22.26  | 22.40 |
| 26   | 3.20   | 4.00  | 5.10    | 13.14         | 13.40 | 17.31  | 19.00 | 21.16   | 21.21 | 22.28  | 22.40 |
| 27   | 3.18   | 4.00  | 5.09    | 13.15         | 13.40 | 17.31  | 19.00 | 21.17   | 21.22 | 22.29  | 22.40 |
| 28   | 3.16   | 4.00  | 5.08    | 13.15         | 13.40 | 17.32  | 19.00 | 21.18   | 21.23 | 22.30  | 22.40 |
| 29   | 3.14   | 4.00  | 5.07    | 13.15         | 13.40 | 17.32  | 19.00 | 21.20   | 21.25 | 22.31  | 22.50 |
| 30   | 3.12   | 4.00  | 5.06    | 13.15         | 13.40 | 17.33  | 19.00 | 21.21   | 21.26 | 22.33  | 22.50 |
| 31   | 3.10   | 4.00  | 5.05    | 13.15         | 13.30 | 17.33  | 19.00 | 21.22   | 21.27 | 22.34  | 22.50 |

## May - 2024

SHAWWAL UL MUKARRAM  
ZULQADAH

1445 H

| Mon      | Tue      | Wed             | Thu              | Fri      | Sat      | Sun      |
|----------|----------|-----------------|------------------|----------|----------|----------|
|          |          | 1<br>Shawwal 22 | 2<br>23          | 3<br>24  | 4<br>25  | 5<br>26  |
| 6<br>27  | 7<br>28  | 8<br>29         | 9<br>Zul Qadah 1 | 10<br>2  | 11<br>3  | 12<br>4  |
| 13<br>5  | 14<br>6  | 15<br>7         | 16<br>8          | 17<br>9  | 18<br>10 | 19<br>11 |
| 20<br>12 | 21<br>13 | 22<br>14        | 23<br>15         | 24<br>16 | 25<br>17 | 26<br>18 |
| 27<br>19 | 28<br>20 | 29<br>21        | 30<br>22         | 31<br>23 |          |          |

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01792 720170

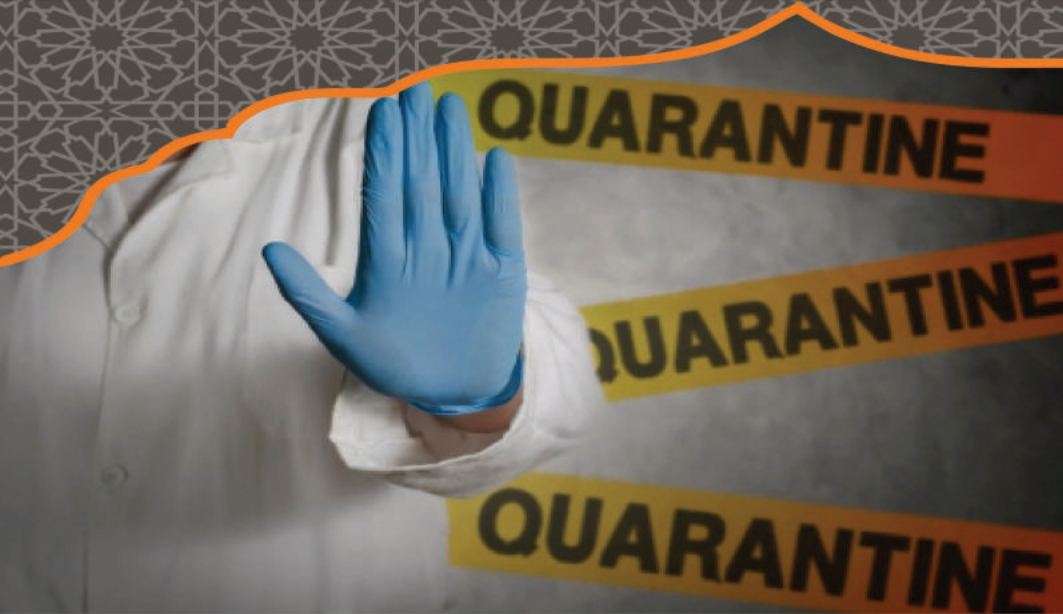
### Bank Details for Donation:

Account Name: Swansea Mosque

Sort Code: 20-84-41, Account Number: 33162567

IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22

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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## IBN SINA

is regarded as one of the most significant physicians, astronomers, thinkers and writers of the Islamic Golden Age and the father of early modern medicine, regarded as one of the most significant physician, astronomers, thinkers and the father of early modern medicine. Was the first to use 40 days sanitary isolation al-arbiainiya (the fortieth) to prevent spread of decease. Venetian merchants adapted this as "Quarantina" (quaranta+ina, forty days) later became popular in all over Europe.

Source of info. Google/ wikipedia



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UK Registered Charity No: 1105355

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| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 3.08   | 3.45  | 5.04    | 13.15         | 13.40 | 17.34  | 19.00 | 21.23   | 21.28 | 22.35  | 22.50 |
| 2    | 3.07   | 3.45  | 5.03    | 13.15         | 13.40 | 17.34  | 19.00 | 21.24   | 21.29 | 22.36  | 22.50 |
| 3    | 3.05   | 3.45  | 5.02    | 13.16         | 13.40 | 17.35  | 19.00 | 21.25   | 21.30 | 22.37  | 22.50 |
| 4    | 3.03   | 3.45  | 5.01    | 13.16         | 13.40 | 17.35  | 19.00 | 21.26   | 21.31 | 22.38  | 22.50 |
| 5    | 3.02   | 3.45  | 5.00    | 13.16         | 13.40 | 17.36  | 19.00 | 21.27   | 21.32 | 22.39  | 22.50 |
| 6    | 3.00   | 3.45  | 5.00    | 13.16         | 13.40 | 17.36  | 19.00 | 21.28   | 21.33 | 22.40  | 22.50 |
| 7    | 2.59   | 3.45  | 4.59    | 13.16         | 13.30 | 17.36  | 19.00 | 21.29   | 21.34 | 22.41  | 22.50 |
| 8    | 2.58   | 3.45  | 4.58    | 13.16         | 13.40 | 17.37  | 19.00 | 21.30   | 21.35 | 22.42  | 22.50 |
| 9    | 2.57   | 3.30  | 4.58    | 13.17         | 13.40 | 17.37  | 19.00 | 21.31   | 21.36 | 22.43  | 23.00 |
| 10   | 2.55   | 3.30  | 4.57    | 13.17         | 13.40 | 17.37  | 19.00 | 21.31   | 21.36 | 22.44  | 23.00 |
| 11   | 2.54   | 3.30  | 4.57    | 13.17         | 13.40 | 17.38  | 19.00 | 21.32   | 21.37 | 22.44  | 23.00 |
| 12   | 2.53   | 3.30  | 4.57    | 13.17         | 13.40 | 17.38  | 19.00 | 21.33   | 21.38 | 22.45  | 23.00 |
| 13   | 2.52   | 3.30  | 4.56    | 13.17         | 13.40 | 17.39  | 19.00 | 21.33   | 21.38 | 22.46  | 23.00 |
| 14   | 2.52   | 3.30  | 4.56    | 13.17         | 13.30 | 17.39  | 19.00 | 21.34   | 21.39 | 22.47  | 23.00 |
| 15   | 2.51   | 3.30  | 4.56    | 13.18         | 13.40 | 17.40  | 19.00 | 21.35   | 21.40 | 22.48  | 23.00 |
| 16   | 2.50   | 3.30  | 4.56    | 13.18         | 13.40 | 17.40  | 19.00 | 21.35   | 21.40 | 22.48  | 23.00 |
| 17   | 2.50   | 3.30  | 4.55    | 13.18         | 13.40 | 17.40  | 19.00 | 21.36   | 21.41 | 22.48  | 23.00 |
| 18   | 2.50   | 3.30  | 4.55    | 13.18         | 13.40 | 17.40  | 19.00 | 21.36   | 21.41 | 22.48  | 23.00 |
| 19   | 2.49   | 3.30  | 4.55    | 13.18         | 13.40 | 17.41  | 19.00 | 21.36   | 21.41 | 22.48  | 23.00 |
| 20   | 2.49   | 3.30  | 4.55    | 13.18         | 13.40 | 17.41  | 19.00 | 21.37   | 21.42 | 22.48  | 23.00 |
| 21   | 2.49   | 3.30  | 4.55    | 13.19         | 13.30 | 17.41  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 22   | 2.49   | 3.30  | 4.56    | 13.19         | 13.40 | 17.41  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 23   | 2.49   | 3.30  | 4.56    | 13.19         | 13.40 | 17.42  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 24   | 2.50   | 3.30  | 4.56    | 13.19         | 13.40 | 17.42  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 25   | 2.50   | 3.30  | 4.56    | 13.19         | 13.40 | 17.42  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 26   | 2.51   | 3.30  | 4.57    | 13.19         | 13.40 | 17.42  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 27   | 2.51   | 3.30  | 4.57    | 13.20         | 13.40 | 17.42  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 28   | 2.52   | 3.30  | 4.57    | 13.20         | 13.30 | 17.42  | 19.00 | 21.37   | 21.42 | 22.49  | 23.00 |
| 29   | 2.53   | 3.30  | 4.58    | 13.20         | 13.40 | 17.43  | 19.00 | 21.37   | 21.42 | 22.48  | 23.00 |
| 30   | 2.54   | 3.30  | 4.58    | 13.20         | 13.40 | 17.43  | 19.00 | 21.37   | 21.42 | 22.48  | 23.00 |

## June - 2024

ZULQADAH  
ZULHIJAH 1445 H

| Mon | Tue | Wed | Thu | Fri        | Sat          | Sun |
|-----|-----|-----|-----|------------|--------------|-----|
|     |     |     |     |            | 1            | 2   |
|     |     |     |     |            | Zul Qadah 24 | 25  |
| 3   | 4   | 5   | 6   | 7          | 8            | 9   |
| 26  | 27  | 28  | 29  | ZULHIJAH 1 | 2            | 3   |
| 10  | 11  | 12  | 13  | 14         | 15           | 16  |
| 4   | 5   | 6   | 7   | 8          | 9            | 10  |
| 17  | 18  | 19  | 20  | 21         | 22           | 23  |
| 11  | 12  | 13  | 14  | 15         | 16           | 17  |
| 24  | 25  | 26  | 27  | 28         | 29           | 30  |
| 18  | 19  | 20  | 21  | 22         | 23           | 24  |

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01792 720170

Bank Details for Donation:  
Account Name: Swansea Mosque  
Sort Code: 20-84-41, Account Number: 33162567  
IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22  
D&P @ [www.idealsolutions.co.in](http://www.idealsolutions.co.in) / [www.westbound.org](http://www.westbound.org) / +91 9845062261 / +44 7748307854



# MUSLIM INVENTIONS that shaped the MODERN WORLD

## AL-ZAHRAWI

has been referred to as the "father of modern surgery", Al-Zahrawi's pioneering contributions to the field of surgical procedures and instruments had an enormous impact in the East and West well into the modern period, where some of his discoveries are still applied in medicine to this day. He pioneered the use of catgut for internal stitches, and his surgical instruments are still used today to treat people

Source of info. Google/ wikipedia



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Tel: 01792 654 532 | [www.swanseamosque.org](http://www.swanseamosque.org) | [info@swanseamosque.org](mailto:info@swanseamosque.org)

UK Registered Charity No: 1105355

### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 2.55   | 3.45  | 4.59    | 13.20         | 13.40 | 17.43  | 19.00 | 21.36   | 21.41 | 22.48  | 23.00 |
| 2    | 2.56   | 3.45  | 5.00    | 13.20         | 13.40 | 17.43  | 19.00 | 21.36   | 21.41 | 22.48  | 23.00 |
| 3    | 2.57   | 3.45  | 5.00    | 13.21         | 13.40 | 17.43  | 19.00 | 21.36   | 21.41 | 22.48  | 23.00 |
| 4    | 2.58   | 3.45  | 5.01    | 13.21         | 13.40 | 17.43  | 19.00 | 21.35   | 21.40 | 22.48  | 23.00 |
| 5    | 3.00   | 3.45  | 5.02    | 13.21         | 13.30 | 17.43  | 19.00 | 21.35   | 21.40 | 22.47  | 23.00 |
| 6    | 3.01   | 3.45  | 5.03    | 13.21         | 13.40 | 17.43  | 19.00 | 21.34   | 21.39 | 22.47  | 23.00 |
| 7    | 3.03   | 3.45  | 5.03    | 13.21         | 13.40 | 17.43  | 19.00 | 21.34   | 21.39 | 22.46  | 23.00 |
| 8    | 3.04   | 3.45  | 5.04    | 13.21         | 13.40 | 17.43  | 19.00 | 21.33   | 21.38 | 22.46  | 23.00 |
| 9    | 3.06   | 3.45  | 5.05    | 13.21         | 13.40 | 17.43  | 19.00 | 21.32   | 21.37 | 22.45  | 23.00 |
| 10   | 3.08   | 3.45  | 5.06    | 13.21         | 13.40 | 17.43  | 19.00 | 21.32   | 21.37 | 22.45  | 23.00 |
| 11   | 3.09   | 3.45  | 5.07    | 13.21         | 13.40 | 17.42  | 19.00 | 21.31   | 21.36 | 22.44  | 23.00 |
| 12   | 3.11   | 3.45  | 5.08    | 13.21         | 13.30 | 17.42  | 19.00 | 21.30   | 21.35 | 22.43  | 23.00 |
| 13   | 3.13   | 3.45  | 5.09    | 13.22         | 13.40 | 17.42  | 19.00 | 21.29   | 21.34 | 22.42  | 23.00 |
| 14   | 3.15   | 4.00  | 5.10    | 13.22         | 13.40 | 17.42  | 19.00 | 21.28   | 21.33 | 22.41  | 23.00 |
| 15   | 3.17   | 4.00  | 5.12    | 13.22         | 13.40 | 17.42  | 19.00 | 21.27   | 21.32 | 22.40  | 22.50 |
| 16   | 3.19   | 4.00  | 5.13    | 13.22         | 13.40 | 17.42  | 19.00 | 21.26   | 21.31 | 22.39  | 22.50 |
| 17   | 3.21   | 4.00  | 5.14    | 13.22         | 13.40 | 17.41  | 19.00 | 21.25   | 21.30 | 22.38  | 22.50 |
| 18   | 3.23   | 4.00  | 5.15    | 13.22         | 13.40 | 17.41  | 19.00 | 21.24   | 21.29 | 22.37  | 22.50 |
| 19   | 3.25   | 4.00  | 5.16    | 13.22         | 13.30 | 17.40  | 19.00 | 21.23   | 21.28 | 22.36  | 22.50 |
| 20   | 3.28   | 4.00  | 5.18    | 13.22         | 13.40 | 17.40  | 19.00 | 21.22   | 21.27 | 22.35  | 22.50 |
| 21   | 3.30   | 4.15  | 5.19    | 13.22         | 13.40 | 17.40  | 19.00 | 21.21   | 21.26 | 22.34  | 22.50 |
| 22   | 3.32   | 4.15  | 5.20    | 13.22         | 13.40 | 17.39  | 19.00 | 21.19   | 21.24 | 22.33  | 22.50 |
| 23   | 3.34   | 4.15  | 5.22    | 13.22         | 13.40 | 17.39  | 19.00 | 21.18   | 21.23 | 22.32  | 22.50 |
| 24   | 3.36   | 4.15  | 5.23    | 13.22         | 13.40 | 17.38  | 19.00 | 21.17   | 21.22 | 22.30  | 22.40 |
| 25   | 3.39   | 4.15  | 5.24    | 13.22         | 13.40 | 17.38  | 19.00 | 21.16   | 21.21 | 22.29  | 22.40 |
| 26   | 3.41   | 4.15  | 5.26    | 13.22         | 13.30 | 17.37  | 19.00 | 21.15   | 21.20 | 22.28  | 22.40 |
| 27   | 3.43   | 4.15  | 5.27    | 13.22         | 13.40 | 17.37  | 19.00 | 21.12   | 21.17 | 22.26  | 22.40 |
| 28   | 3.45   | 4.30  | 5.29    | 13.22         | 13.40 | 17.36  | 19.00 | 21.11   | 21.16 | 22.24  | 22.40 |
| 29   | 3.48   | 4.30  | 5.30    | 13.22         | 13.40 | 17.36  | 19.00 | 21.09   | 21.14 | 22.22  | 22.40 |
| 30   | 3.50   | 4.30  | 5.32    | 13.22         | 13.40 | 17.35  | 19.00 | 21.08   | 21.13 | 22.21  | 22.40 |
| 31   | 3.52   | 4.30  | 5.33    | 13.22         | 13.40 | 17.34  | 19.00 | 21.06   | 21.11 | 22.20  | 22.30 |

## July - 2024

ZULHIJAH 1445/146 H  
MUHARRAM UL HARAM

| Mon              | Tue      | Wed      | Thu      | Fri      | Sat      | Sun             |
|------------------|----------|----------|----------|----------|----------|-----------------|
| 1<br>ZULHIJAH 25 | 2<br>26  | 3<br>27  | 4<br>28  | 5<br>29  | 6<br>30  | 7<br>MUHARRAM 1 |
| 8<br>2           | 9<br>3   | 10<br>4  | 11<br>5  | 12<br>6  | 13<br>7  | 14<br>8         |
| 15<br>9          | 16<br>10 | 17<br>11 | 18<br>12 | 19<br>13 | 20<br>14 | 21<br>15        |
| 22<br>16         | 23<br>17 | 24<br>18 | 25<br>19 | 26<br>20 | 27<br>21 | 28<br>22        |
| 29<br>23         | 30<br>24 | 31<br>25 |          |          |          |                 |

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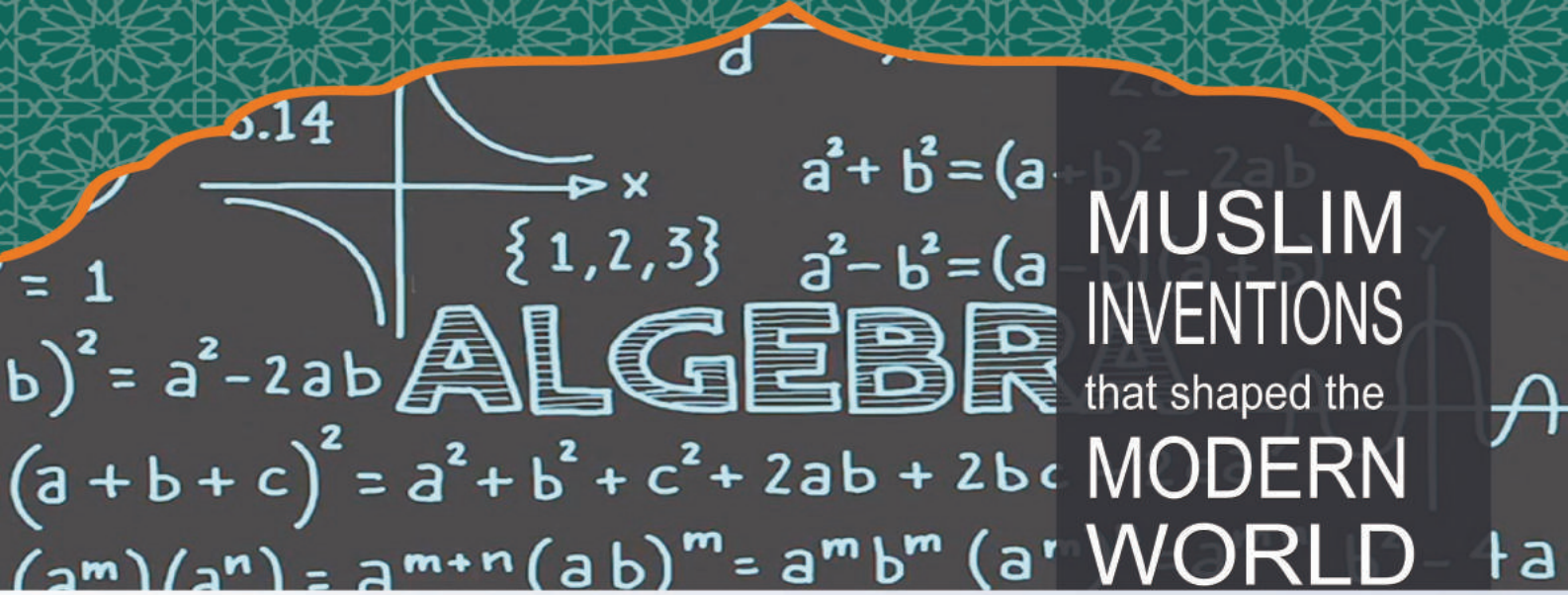
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SCAN ME for contact details  
01792 720170

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Sort Code: 20-84-41, Account Number: 33162567  
IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22  
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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## MUHAMMAD AL-KHWARIZMI

Al-khwarizmi's contributions to mathematics, geography, astronomy, and cartography established the basis for innovation in algebra and trigonometry. His systematic approach in solving linear and quadratic equations led to algebra, a word derived from the title of his book on the subject, "The Compendious Book on Calculation by Completion and Balancing"

Source of info. Google/ wikipedia



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|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 3.55   | 4.45  | 5.35    | 13.22         | 13.40 | 17.34  | 19.00 | 21.05   | 21.10 | 22.18  | 22.30 |
| 2    | 3.57   | 4.45  | 5.36    | 13.22         | 13.30 | 17.32  | 19.00 | 21.03   | 21.08 | 22.17  | 22.30 |
| 3    | 3.59   | 4.45  | 5.38    | 13.22         | 13.40 | 17.32  | 19.00 | 21.01   | 21.06 | 22.16  | 22.30 |
| 4    | 4.01   | 4.45  | 5.39    | 13.22         | 13.40 | 17.32  | 19.00 | 21.00   | 21.05 | 22.15  | 22.30 |
| 5    | 4.04   | 4.45  | 5.41    | 13.22         | 13.40 | 17.31  | 19.00 | 20.58   | 21.03 | 22.13  | 22.30 |
| 6    | 4.06   | 4.45  | 5.42    | 13.22         | 13.40 | 17.30  | 19.00 | 20.56   | 21.01 | 22.12  | 22.30 |
| 7    | 4.08   | 4.45  | 5.44    | 13.22         | 13.40 | 17.29  | 19.00 | 20.54   | 20.59 | 22.10  | 22.30 |
| 8    | 4.11   | 4.45  | 5.46    | 13.22         | 13.40 | 17.28  | 19.00 | 20.53   | 20.58 | 22.08  | 22.20 |
| 9    | 4.13   | 4.45  | 5.47    | 13.22         | 13.30 | 17.28  | 19.00 | 20.51   | 20.56 | 22.06  | 22.20 |
| 10   | 4.15   | 4.45  | 5.49    | 13.22         | 13.40 | 17.27  | 19.00 | 20.49   | 20.54 | 22.04  | 22.20 |
| 11   | 4.17   | 5.00  | 5.50    | 13.21         | 13.40 | 17.26  | 19.00 | 20.47   | 20.52 | 22.02  | 22.20 |
| 12   | 4.20   | 5.00  | 5.52    | 13.21         | 13.40 | 17.25  | 19.00 | 20.45   | 20.50 | 22.01  | 22.20 |
| 13   | 4.22   | 5.00  | 5.54    | 13.21         | 13.40 | 17.24  | 19.00 | 20.43   | 20.48 | 21.59  | 22.20 |
| 14   | 4.24   | 5.00  | 5.55    | 13.21         | 13.40 | 17.23  | 19.00 | 20.41   | 20.46 | 21.57  | 22.20 |
| 15   | 4.26   | 5.00  | 5.57    | 13.21         | 13.40 | 17.22  | 19.00 | 20.39   | 20.44 | 21.56  | 22.10 |
| 16   | 4.28   | 5.00  | 5.58    | 13.21         | 13.30 | 17.21  | 19.00 | 20.37   | 20.42 | 21.54  | 22.10 |
| 17   | 4.31   | 5.00  | 6.00    | 13.20         | 13.40 | 17.20  | 19.00 | 20.35   | 20.40 | 21.52  | 22.10 |
| 18   | 4.33   | 5.15  | 6.02    | 13.20         | 13.40 | 17.18  | 18.30 | 20.33   | 20.38 | 21.51  | 22.10 |
| 19   | 4.35   | 5.15  | 6.03    | 13.20         | 13.40 | 17.18  | 18.30 | 20.31   | 20.36 | 21.47  | 22.10 |
| 20   | 4.37   | 5.15  | 6.05    | 13.20         | 13.40 | 17.17  | 18.30 | 20.29   | 20.34 | 21.45  | 22.10 |
| 21   | 4.39   | 5.15  | 6.06    | 13.19         | 13.40 | 17.15  | 18.30 | 20.27   | 20.32 | 21.43  | 22.10 |
| 22   | 4.41   | 5.15  | 6.08    | 13.19         | 13.40 | 17.14  | 18.30 | 20.25   | 20.30 | 21.40  | 22.00 |
| 23   | 4.43   | 5.15  | 6.10    | 13.19         | 13.30 | 17.13  | 18.30 | 20.23   | 20.28 | 21.38  | 22.00 |
| 24   | 4.46   | 5.15  | 6.11    | 13.19         | 13.40 | 17.12  | 18.30 | 20.21   | 20.26 | 21.36  | 22.00 |
| 25   | 4.48   | 5.30  | 6.13    | 13.19         | 13.40 | 17.11  | 18.30 | 20.18   | 20.23 | 21.34  | 22.00 |
| 26   | 4.50   | 5.30  | 6.15    | 13.19         | 13.40 | 17.09  | 18.30 | 20.16   | 20.21 | 21.32  | 22.00 |
| 27   | 4.52   | 5.30  | 6.16    | 13.18         | 13.40 | 17.07  | 18.30 | 20.14   | 20.19 | 21.30  | 22.00 |
| 28   | 4.54   | 5.30  | 6.18    | 13.18         | 13.40 | 17.07  | 18.30 | 20.12   | 20.17 | 21.27  | 21.45 |
| 29   | 4.56   | 5.30  | 6.20    | 13.17         | 13.40 | 17.06  | 18.30 | 20.10   | 20.15 | 21.25  | 21.45 |
| 30   | 4.58   | 5.30  | 6.21    | 13.17         | 13.30 | 17.04  | 18.30 | 20.08   | 20.13 | 21.23  | 21.45 |
| 31   | 5.00   | 5.30  | 6.23    | 13.17         | 13.40 | 17.03  | 18.30 | 20.05   | 20.10 | 21.21  | 21.45 |

## August - 2024

MUHARRAM UL HARAM  
SAFAR UL MUZAFFAR

1446 H

| Mon | Tue     | Wed | Thu         | Fri | Sat | Sun |
|-----|---------|-----|-------------|-----|-----|-----|
|     |         |     | 1           | 2   | 3   | 4   |
|     |         |     | MUHARRAM 26 | 27  | 28  | 29  |
| 5   | 6       | 7   | 8           | 9   | 10  | 11  |
| 30  | SAFAR 1 | 2   | 3           | 4   | 5   | 6   |
| 12  | 13      | 14  | 15          | 16  | 17  | 18  |
| 7   | 8       | 9   | 10          | 11  | 12  | 13  |
| 19  | 20      | 21  | 22          | 23  | 24  | 25  |
| 14  | 15      | 16  | 17          | 18  | 19  | 20  |
| 26  | 27      | 28  | 29          | 30  | 31  |     |
| 21  | 22      | 23  | 24          | 25  | 26  |     |

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SCAN ME for contact details  
01792 720170

### Bank Details for Donation:

Account Name: Swansea Mosque

Sort Code: 20-84-41, Account Number: 33162567

IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22

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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## JABIR IBN HAYYAN

Abu Musa Jabir IbnHayyan Al-Azdi, sometimes called al-Harrani and al-Sufi, is considered the father of Arab chemistry and one of the founders of modern pharmacy. He was known to the Europeans as Geber. He invented many of the basic procedures and equipment still in use today – distillation, evaporation, crystallisation, purification, filtration and oxidation. He discovered sulphuric and nitric acid. He invented the alembic still, for the creation of perfumes and alcoholic spirits. IbnHayyan was the founder of modern chemistry and a forerunner of the scientific method.

Source of info. Google/ wikipedia



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|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 5.02   | 5.45  | 6.24    | 13.17         | 13.40 | 17.01  | 18.00 | 20.03   | 20.08 | 21.19  | 21.45 |
| 2    | 5.04   | 5.45  | 6.26    | 13.16         | 13.40 | 17.00  | 18.00 | 20.01   | 20.06 | 21.16  | 21.45 |
| 3    | 5.06   | 5.45  | 6.28    | 13.16         | 13.40 | 16.59  | 18.00 | 19.59   | 20.04 | 21.14  | 21.45 |
| 4    | 5.08   | 5.45  | 6.29    | 13.16         | 13.40 | 16.57  | 18.00 | 19.56   | 20.01 | 21.12  | 21.30 |
| 5    | 5.10   | 5.45  | 6.31    | 13.16         | 13.40 | 16.56  | 18.00 | 19.54   | 19.59 | 21.10  | 21.30 |
| 6    | 5.12   | 5.45  | 6.33    | 13.16         | 13.30 | 16.54  | 18.00 | 19.52   | 19.57 | 21.07  | 21.30 |
| 7    | 5.13   | 5.45  | 6.34    | 13.15         | 13.40 | 16.53  | 18.00 | 19.50   | 19.55 | 21.05  | 21.30 |
| 8    | 5.15   | 5.45  | 6.36    | 13.15         | 13.40 | 16.51  | 18.00 | 19.47   | 19.52 | 21.03  | 21.30 |
| 9    | 5.17   | 5.45  | 6.37    | 13.13         | 13.40 | 16.50  | 18.00 | 19.45   | 19.50 | 21.00  | 21.30 |
| 10   | 5.19   | 5.45  | 6.39    | 13.13         | 13.40 | 16.48  | 18.00 | 19.43   | 19.48 | 20.58  | 21.15 |
| 11   | 5.21   | 5.45  | 6.41    | 13.13         | 13.40 | 16.47  | 18.00 | 19.40   | 19.45 | 20.56  | 21.15 |
| 12   | 5.23   | 5.45  | 6.42    | 13.13         | 13.40 | 16.45  | 18.00 | 19.38   | 19.43 | 20.54  | 21.15 |
| 13   | 5.25   | 5.45  | 6.44    | 13.13         | 13.30 | 16.44  | 18.00 | 19.36   | 19.41 | 20.51  | 21.15 |
| 14   | 5.27   | 5.45  | 6.46    | 13.13         | 13.40 | 16.42  | 18.00 | 19.34   | 19.39 | 20.49  | 21.15 |
| 15   | 5.28   | 6.00  | 6.47    | 13.12         | 13.40 | 16.41  | 17.30 | 19.31   | 19.36 | 20.46  | 21.15 |
| 16   | 5.30   | 6.00  | 6.49    | 13.12         | 13.40 | 16.39  | 17.30 | 19.29   | 19.34 | 20.44  | 21.15 |
| 17   | 5.32   | 6.00  | 6.50    | 13.11         | 13.40 | 16.37  | 17.30 | 19.27   | 19.32 | 20.41  | 21.00 |
| 18   | 5.34   | 6.00  | 6.52    | 13.11         | 13.40 | 16.36  | 17.30 | 19.24   | 19.29 | 20.39  | 21.00 |
| 19   | 5.36   | 6.00  | 6.54    | 13.10         | 13.40 | 16.34  | 17.30 | 19.22   | 19.27 | 20.37  | 21.00 |
| 20   | 5.37   | 6.00  | 6.55    | 13.10         | 13.30 | 16.33  | 17.30 | 19.20   | 19.25 | 20.35  | 21.00 |
| 21   | 5.39   | 6.00  | 6.57    | 13.09         | 13.40 | 16.31  | 17.30 | 19.17   | 19.22 | 20.33  | 21.00 |
| 22   | 5.41   | 6.15  | 6.59    | 13.09         | 13.40 | 16.29  | 17.30 | 19.15   | 19.20 | 20.31  | 21.00 |
| 23   | 5.43   | 6.15  | 7.00    | 13.08         | 13.40 | 16.28  | 17.30 | 19.13   | 19.18 | 20.28  | 20.45 |
| 24   | 5.44   | 6.15  | 7.02    | 13.08         | 13.40 | 16.26  | 17.30 | 19.10   | 19.15 | 20.25  | 20.45 |
| 25   | 5.46   | 6.15  | 7.04    | 13.07         | 13.40 | 16.24  | 17.30 | 19.08   | 19.13 | 20.23  | 20.45 |
| 26   | 5.48   | 6.15  | 7.05    | 13.07         | 13.40 | 16.23  | 17.30 | 19.06   | 19.11 | 20.21  | 20.45 |
| 27   | 5.50   | 6.15  | 7.07    | 13.07         | 13.30 | 16.21  | 17.30 | 19.03   | 19.08 | 20.18  | 20.45 |
| 28   | 5.51   | 6.15  | 7.09    | 13.07         | 13.40 | 16.19  | 17.30 | 19.01   | 19.06 | 20.16  | 20.45 |
| 29   | 5.53   | 6.15  | 7.10    | 13.07         | 13.40 | 16.17  | 17.30 | 18.59   | 19.04 | 20.14  | 20.45 |
| 30   | 5.55   | 6.15  | 7.12    | 13.07         | 13.40 | 16.16  | 17.30 | 18.57   | 19.02 | 20.12  | 20.30 |

## September - 2024

SAFAR UL MUZAFFAR  
RABI UL AWWAL

1446 H

| Mon      | Tue      | Wed                  | Thu      | Fri      | Sat      | Sun           |
|----------|----------|----------------------|----------|----------|----------|---------------|
| 30<br>27 |          |                      |          |          |          | 1<br>SAFAR 27 |
| 2<br>28  | 3<br>29  | 4<br>RABI UL AWWAL 1 | 5<br>2   | 6<br>3   | 7<br>4   | 8<br>5        |
| 9<br>6   | 10<br>7  | 11<br>8              | 12<br>9  | 13<br>10 | 14<br>11 | 15<br>12      |
| 16<br>13 | 17<br>14 | 18<br>15             | 19<br>16 | 20<br>17 | 21<br>18 | 22<br>19      |
| 23<br>20 | 24<br>21 | 25<br>22             | 26<br>23 | 27<br>24 | 28<br>25 | 29<br>26      |

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### Bank Details for Donation:

Account Name: Swansea Mosque

Sort Code: 20-84-41, Account Number: 33162567

IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22

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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## MARIAM AL ASTRULABI

Since Muslims pray five times a day, the timings are determined by the position of the sun. Muslim worshippers, wherever they are in the world, have to pray facing the Holy Kaaba in Saudi Arabia's Mecca city. These requirements informed some of the crucial scientific feats during the Golden Age of Islam. In the 10th century, a Muslim woman named Maryam al-Ijliya, also known as Mariam al Astrulabi, took the craft of building astrolabes to the next level. An astrolabe is an ancient device used to measure time and the position of the sun and stars.

Source of info. Google/ wikipedia



## SWANSEA MOSQUE AND ISLAMIC COMMUNITY CENTRE

159A St Helens Road, Swansea, SA1 4DG, United Kingdom

Tel: 01792 654 532 | [www.swanseamosque.org](http://www.swanseamosque.org) | [info@swanseamosque.org](mailto:info@swanseamosque.org)

UK Registered Charity No: 1105355

### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 5.56   | 6.30  | 7.14    | 13.06         | 13.40 | 16.14  | 17.00 | 18.54   | 18.59 | 20.09  | 20.30 |
| 2    | 5.58   | 6.30  | 7.15    | 13.06         | 13.40 | 16.12  | 17.00 | 18.52   | 18.57 | 20.07  | 20.30 |
| 3    | 6.00   | 6.30  | 7.17    | 13.05         | 13.40 | 16.11  | 17.00 | 18.50   | 18.55 | 20.05  | 20.30 |
| 4    | 6.01   | 6.30  | 7.19    | 13.05         | 13.30 | 16.09  | 17.00 | 18.47   | 18.52 | 20.04  | 20.30 |
| 5    | 6.03   | 6.30  | 7.20    | 13.05         | 13.40 | 16.07  | 17.00 | 18.45   | 18.50 | 20.03  | 20.30 |
| 6    | 6.05   | 6.30  | 7.22    | 13.05         | 13.40 | 16.05  | 17.00 | 18.43   | 18.48 | 20.00  | 20.30 |
| 7    | 6.06   | 6.30  | 7.24    | 13.04         | 13.40 | 16.04  | 17.00 | 18.41   | 18.46 | 19.59  | 20.15 |
| 8    | 6.08   | 6.45  | 7.25    | 13.04         | 13.40 | 16.02  | 17.00 | 18.38   | 18.43 | 19.58  | 20.15 |
| 9    | 6.10   | 6.45  | 7.27    | 13.03         | 13.40 | 16.00  | 17.00 | 18.36   | 18.41 | 19.57  | 20.15 |
| 10   | 6.11   | 6.45  | 7.29    | 13.03         | 13.40 | 15.59  | 17.00 | 18.34   | 18.39 | 19.56  | 20.15 |
| 11   | 6.13   | 6.45  | 7.30    | 13.03         | 13.30 | 15.57  | 17.00 | 18.32   | 18.37 | 19.55  | 20.15 |
| 12   | 6.15   | 6.45  | 7.32    | 13.03         | 13.40 | 15.55  | 17.00 | 18.30   | 18.35 | 19.54  | 20.15 |
| 13   | 6.16   | 6.45  | 7.34    | 13.03         | 13.40 | 15.53  | 17.00 | 18.27   | 18.32 | 19.53  | 20.15 |
| 14   | 6.18   | 6.45  | 7.35    | 13.03         | 13.40 | 15.52  | 17.00 | 18.25   | 18.30 | 19.52  | 20.15 |
| 15   | 6.20   | 6.45  | 7.37    | 13.02         | 13.40 | 15.50  | 17.00 | 18.23   | 18.28 | 19.51  | 20.15 |
| 16   | 6.21   | 6.45  | 7.39    | 13.02         | 13.40 | 15.48  | 17.00 | 18.21   | 18.26 | 19.50  | 20.15 |
| 17   | 6.23   | 6.45  | 7.41    | 13.02         | 13.40 | 15.47  | 17.00 | 18.19   | 18.24 | 19.49  | 20.15 |
| 18   | 6.25   | 6.45  | 7.42    | 13.02         | 13.30 | 15.45  | 17.00 | 18.17   | 18.22 | 19.48  | 20.15 |
| 19   | 6.26   | 6.45  | 7.44    | 13.01         | 13.40 | 15.43  | 17.00 | 18.15   | 18.20 | 19.47  | 20.15 |
| 20   | 6.28   | 7.00  | 7.46    | 13.01         | 13.40 | 15.42  | 16.30 | 18.13   | 18.18 | 19.45  | 20.00 |
| 21   | 6.29   | 7.00  | 7.48    | 13.01         | 13.40 | 15.40  | 16.30 | 18.10   | 18.15 | 19.43  | 20.00 |
| 22   | 6.31   | 7.00  | 7.49    | 13.01         | 13.40 | 15.38  | 16.30 | 18.08   | 18.13 | 19.41  | 20.00 |
| 23   | 6.33   | 7.00  | 7.51    | 13.00         | 13.40 | 15.37  | 16.30 | 18.06   | 18.11 | 19.39  | 20.00 |
| 24   | 6.34   | 7.00  | 7.53    | 13.00         | 13.40 | 15.35  | 16.30 | 18.04   | 18.09 | 19.37  | 20.00 |
| 25   | 6.36   | 7.00  | 7.55    | 13.00         | 13.30 | 15.33  | 16.30 | 18.02   | 18.07 | 19.35  | 20.00 |
| 26   | 6.38   | 7.00  | 7.57    | 13.00         | 13.40 | 15.32  | 16.30 | 18.00   | 18.05 | 19.33  | 20.00 |
| 27   | 5.39   | 6.00  | 6.58    | 12.00         | 13.15 | 14.30  | 15.30 | 16.58   | 17.03 | 18.31  | 19.00 |
| 28   | 5.41   | 6.00  | 7.00    | 12.00         | 13.15 | 14.29  | 15.30 | 16.56   | 17.01 | 18.29  | 19.00 |
| 29   | 5.42   | 6.00  | 7.02    | 12.00         | 13.15 | 14.27  | 15.30 | 16.55   | 17.00 | 18.27  | 19.00 |
| 30   | 5.44   | 6.15  | 7.04    | 12.00         | 13.15 | 14.26  | 15.30 | 16.53   | 16.58 | 18.25  | 19.00 |
| 31   | 5.46   | 6.15  | 7.05    | 12.00         | 13.15 | 14.24  | 15.30 | 16.51   | 16.56 | 18.23  | 19.00 |

## October - 2024

RABI UL AWWAL  
RABI US SANI

1446 H

| Mon      | Tue                   | Wed      | Thu      | Fri                   | Sat      | Sun      |
|----------|-----------------------|----------|----------|-----------------------|----------|----------|
|          | 1<br>RABI UL AWWAL 28 | 2<br>29  | 3<br>30  | 4<br>RABI - US-SANI 1 | 5<br>2   | 6<br>3   |
| 7<br>4   | 8<br>5                | 9<br>6   | 10<br>7  | 11<br>8               | 12<br>9  | 13<br>10 |
| 14<br>11 | 15<br>12              | 16<br>13 | 17<br>14 | 18<br>15              | 19<br>16 | 20<br>17 |
| 21<br>18 | 22<br>19              | 23<br>20 | 24<br>21 | 25<br>22              | 26<br>23 | 27<br>24 |
| 28<br>25 | 29<br>26              | 30<br>27 | 31<br>28 |                       |          |          |

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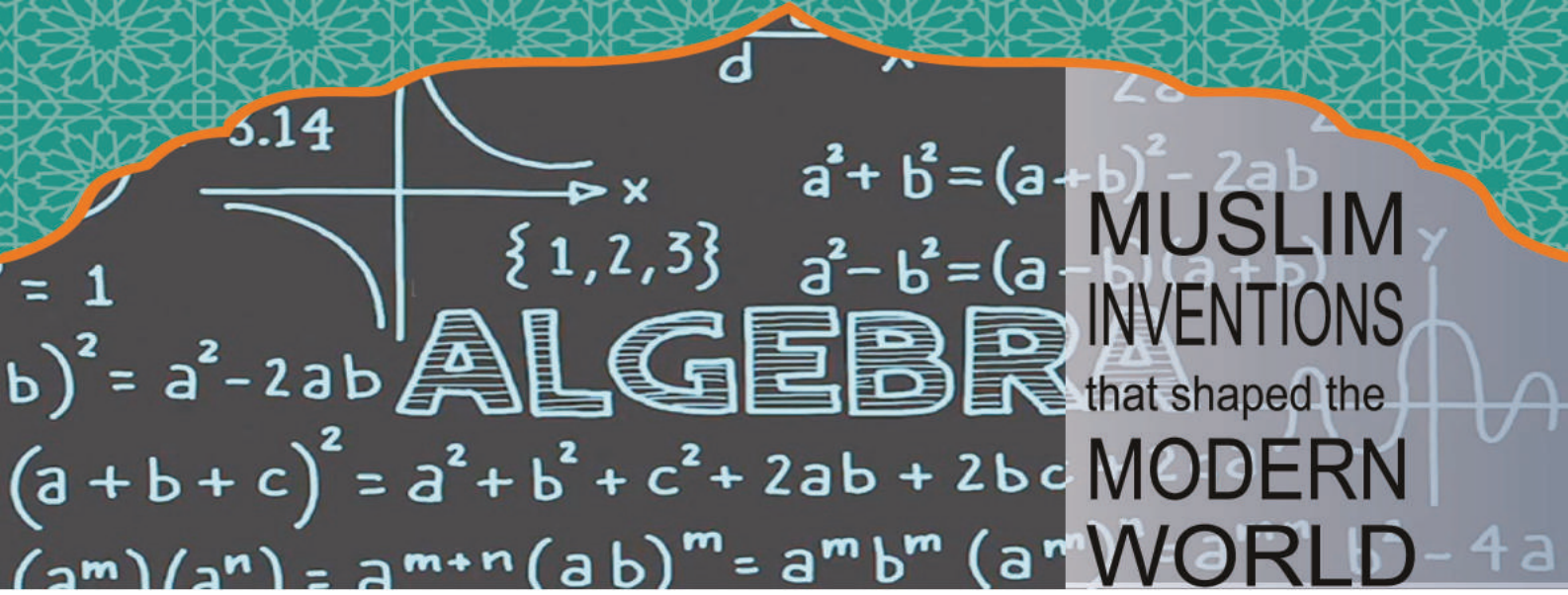
### Bank Details for Donation:

Account Name: Swansea Mosque

Sort Code: 20-84-41, Account Number: 33162567

IBAN CODE: GB86 BARC 2084 4133 1625 67, SWIFT: BARCGB22

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## MUHAMMAD AL-KHWARIZMI

Al-khwarizmi's contributions to mathematics, geography, astronomy, and cartography established the basis for innovation in algebra and trigonometry. His systematic approach in solving linear and quadratic equations led to algebra, a word derived from the title of his book on the subject, "The Compendious Book on Calculation by Completion and Balancing"

Source of info. Google/ wikipedia



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UK Registered Charity No: 1105355

### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 5.47   | 6.15  | 7.07    | 12.00         | 13.00 | 14.23  | 15.30 | 16.49   | 16.54 | 18.21  | 19.00 |
| 2    | 5.49   | 6.15  | 7.09    | 12.00         | 13.15 | 14.21  | 15.30 | 16.47   | 16.52 | 18.19  | 19.00 |
| 3    | 5.50   | 6.15  | 7.11    | 12.00         | 13.15 | 14.20  | 15.30 | 16.45   | 16.50 | 18.18  | 19.00 |
| 4    | 5.52   | 6.30  | 7.13    | 12.00         | 13.15 | 14.18  | 15.30 | 16.44   | 16.49 | 18.16  | 19.00 |
| 5    | 5.53   | 6.30  | 7.14    | 12.00         | 13.15 | 14.17  | 15.30 | 16.42   | 16.47 | 18.14  | 19.00 |
| 6    | 5.55   | 6.30  | 7.16    | 12.00         | 13.15 | 14.15  | 15.30 | 16.40   | 16.45 | 18.12  | 19.00 |
| 7    | 5.57   | 6.30  | 7.18    | 12.00         | 13.15 | 14.14  | 15.30 | 16.39   | 16.44 | 18.10  | 19.00 |
| 8    | 5.58   | 6.30  | 7.20    | 12.00         | 13.00 | 14.13  | 15.30 | 16.37   | 16.42 | 18.09  | 19.00 |
| 9    | 6.00   | 6.30  | 7.22    | 12.01         | 13.15 | 14.11  | 15.30 | 16.35   | 16.40 | 18.07  | 19.00 |
| 10   | 6.01   | 6.30  | 7.23    | 12.01         | 13.15 | 14.10  | 15.00 | 16.34   | 16.39 | 18.05  | 19.00 |
| 11   | 6.03   | 6.30  | 7.25    | 12.01         | 13.15 | 14.09  | 15.00 | 16.32   | 16.37 | 18.04  | 19.00 |
| 12   | 6.04   | 6.30  | 7.27    | 12.01         | 13.15 | 14.08  | 15.00 | 16.31   | 16.36 | 18.02  | 19.00 |
| 13   | 6.06   | 6.30  | 7.29    | 12.01         | 13.15 | 14.06  | 15.00 | 16.29   | 16.34 | 18.01  | 19.00 |
| 14   | 6.07   | 6.30  | 7.31    | 12.01         | 13.15 | 14.05  | 15.00 | 16.28   | 16.33 | 17.59  | 19.00 |
| 15   | 6.09   | 6.30  | 7.32    | 12.02         | 13.00 | 14.04  | 15.00 | 16.26   | 16.31 | 17.58  | 19.00 |
| 16   | 6.10   | 6.30  | 7.34    | 12.02         | 13.15 | 14.04  | 15.00 | 16.25   | 16.30 | 17.56  | 19.00 |
| 17   | 6.12   | 6.45  | 7.36    | 12.02         | 13.15 | 14.03  | 15.00 | 16.24   | 16.29 | 17.55  | 19.00 |
| 18   | 6.13   | 6.45  | 7.38    | 12.02         | 13.15 | 14.03  | 15.00 | 16.22   | 16.27 | 17.53  | 19.00 |
| 19   | 6.15   | 6.45  | 7.39    | 12.02         | 13.15 | 14.02  | 15.00 | 16.21   | 16.26 | 17.52  | 19.00 |
| 20   | 6.16   | 6.45  | 7.41    | 12.02         | 13.15 | 14.02  | 15.00 | 16.20   | 16.25 | 17.51  | 19.00 |
| 21   | 6.18   | 6.45  | 7.43    | 12.03         | 13.15 | 14.01  | 15.00 | 16.19   | 16.24 | 17.49  | 19.00 |
| 22   | 6.19   | 6.45  | 7.44    | 12.03         | 13.00 | 14.01  | 15.00 | 16.18   | 16.23 | 17.48  | 19.00 |
| 23   | 6.20   | 6.45  | 7.46    | 12.03         | 13.15 | 14.01  | 15.00 | 16.17   | 16.22 | 17.47  | 19.00 |
| 24   | 6.22   | 7.00  | 7.48    | 12.03         | 13.15 | 14.01  | 14.45 | 16.15   | 16.20 | 17.46  | 19.00 |
| 25   | 6.23   | 7.00  | 7.49    | 12.03         | 13.15 | 14.01  | 14.45 | 16.14   | 16.19 | 17.45  | 19.00 |
| 26   | 6.25   | 7.00  | 7.51    | 12.03         | 13.15 | 14.01  | 14.45 | 16.14   | 16.19 | 17.44  | 19.00 |
| 27   | 6.26   | 7.00  | 7.53    | 12.04         | 13.15 | 14.01  | 14.45 | 16.13   | 16.18 | 17.43  | 19.00 |
| 28   | 6.27   | 7.00  | 7.54    | 12.04         | 13.15 | 14.01  | 14.45 | 16.12   | 16.17 | 17.42  | 19.00 |
| 29   | 6.29   | 7.00  | 7.56    | 12.05         | 13.00 | 14.01  | 14.45 | 16.11   | 16.16 | 17.41  | 19.00 |
| 30   | 6.30   | 7.00  | 7.57    | 12.05         | 13.15 | 14.01  | 14.45 | 16.10   | 16.15 | 17.40  | 19.00 |

## November - 2024

RABI US SANI  
JUMADIL ULA

1446 H

| Mon | Tue | Wed | Thu | Fri               | Sat | Sun           |
|-----|-----|-----|-----|-------------------|-----|---------------|
|     |     |     |     | 1                 | 2   | 3             |
|     |     |     |     | RABI - US-SANI 29 | 30  | JUMADIL ULA 1 |
| 4   | 5   | 6   | 7   | 8                 | 9   | 10            |
| 2   | 3   | 4   | 5   | 6                 | 7   | 8             |
| 11  | 12  | 13  | 14  | 15                | 16  | 17            |
| 9   | 10  | 11  | 12  | 13                | 14  | 15            |
| 18  | 19  | 20  | 21  | 22                | 23  | 24            |
| 16  | 17  | 18  | 19  | 20                | 21  | 22            |
| 25  | 26  | 27  | 28  | 29                | 30  |               |
| 23  | 24  | 25  | 26  | 27                | 28  |               |

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# MUSLIM INVENTIONS that shaped the MODERN WORLD

## MOHAMMED AL-IDRISI

The Moroccan geographer's scientific and cognitive input, which span over 15 years of work, investigation, and scrutiny, key to the development of the world map which was engraved on a large silver plate and in a book called "Nuzhat al-Mushtaq Fi Khtirak Al Afaq." The Tabula Rogeriana, as it has become known, was the most accurate map of the known inhabited world for three hundred years.

Source of info. Google/ wikipedia



## SWANSEA MOSQUE AND ISLAMIC COMMUNITY CENTRE

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### PRAYER TIME TABLE

| Date | Fajr   |       |         | Zuhr / Begins |       | Asar   |       | Maghrib |       | Isha   |       |
|------|--------|-------|---------|---------------|-------|--------|-------|---------|-------|--------|-------|
|      | Begins | Jamah | Sunrise | Begins        | Jamah | Begins | Jamah | Begins  | Jamah | Begins | Jamah |
| 1    | 6.31   | 7.00  | 7.59    | 12.05         | 13.15 | 14.00  | 14.45 | 16.10   | 16.15 | 17.39  | 19.00 |
| 2    | 6.32   | 7.00  | 8.00    | 12.05         | 13.15 | 14.00  | 14.45 | 16.09   | 16.14 | 17.39  | 19.00 |
| 3    | 6.34   | 7.00  | 8.02    | 12.05         | 13.15 | 14.00  | 14.45 | 16.08   | 16.13 | 17.38  | 19.00 |
| 4    | 6.35   | 7.00  | 8.03    | 12.05         | 13.15 | 14.00  | 14.45 | 16.08   | 16.13 | 17.37  | 19.00 |
| 5    | 6.36   | 7.00  | 8.04    | 12.06         | 13.15 | 14.00  | 14.45 | 16.07   | 16.12 | 17.37  | 19.00 |
| 6    | 6.37   | 7.00  | 8.06    | 12.06         | 13.00 | 13.59  | 14.45 | 16.07   | 16.12 | 17.36  | 19.00 |
| 7    | 6.38   | 7.00  | 8.07    | 12.07         | 13.15 | 13.59  | 14.45 | 16.07   | 16.12 | 17.36  | 19.00 |
| 8    | 6.39   | 7.15  | 8.08    | 12.07         | 13.15 | 13.59  | 14.45 | 16.06   | 16.11 | 17.36  | 19.00 |
| 9    | 6.40   | 7.15  | 8.10    | 12.07         | 13.15 | 13.59  | 14.45 | 16.06   | 16.11 | 17.35  | 19.00 |
| 10   | 6.41   | 7.15  | 8.11    | 12.07         | 13.15 | 13.59  | 14.45 | 16.06   | 16.11 | 17.35  | 19.00 |
| 11   | 6.42   | 7.15  | 8.12    | 12.08         | 13.15 | 13.59  | 14.45 | 16.06   | 16.11 | 17.35  | 19.00 |
| 12   | 6.43   | 7.15  | 8.13    | 12.08         | 13.15 | 13.59  | 14.45 | 16.06   | 16.11 | 17.34  | 19.00 |
| 13   | 6.44   | 7.15  | 8.14    | 12.09         | 13.00 | 13.59  | 14.45 | 16.06   | 16.11 | 17.34  | 19.00 |
| 14   | 6.45   | 7.15  | 8.15    | 12.09         | 13.15 | 13.59  | 14.45 | 16.06   | 16.11 | 17.34  | 19.00 |
| 15   | 6.46   | 7.15  | 8.16    | 12.10         | 13.15 | 14.00  | 14.45 | 16.06   | 16.11 | 17.34  | 19.00 |
| 16   | 6.46   | 7.15  | 8.17    | 12.10         | 13.15 | 14.00  | 14.45 | 16.06   | 16.11 | 17.34  | 19.00 |
| 17   | 6.47   | 7.15  | 8.18    | 12.11         | 13.15 | 14.00  | 14.45 | 16.06   | 16.11 | 17.34  | 19.00 |
| 18   | 6.48   | 7.15  | 8.19    | 12.11         | 13.15 | 14.00  | 14.45 | 16.06   | 16.11 | 17.35  | 19.00 |
| 19   | 6.49   | 7.15  | 8.19    | 12.12         | 13.15 | 14.00  | 14.45 | 16.07   | 16.12 | 17.35  | 19.00 |
| 20   | 6.49   | 7.15  | 8.20    | 12.12         | 13.00 | 14.01  | 14.45 | 16.07   | 16.12 | 17.35  | 19.00 |
| 21   | 6.50   | 7.15  | 8.21    | 12.13         | 13.15 | 14.01  | 14.45 | 16.07   | 16.12 | 17.36  | 19.00 |
| 22   | 6.50   | 7.30  | 8.21    | 12.13         | 13.15 | 14.01  | 14.45 | 16.08   | 16.13 | 17.36  | 19.00 |
| 23   | 6.51   | 7.30  | 8.22    | 12.14         | 13.15 | 14.01  | 14.45 | 16.08   | 16.13 | 17.36  | 19.00 |
| 24   | 6.51   | 7.30  | 8.22    | 12.14         | 13.15 | 14.02  | 14.45 | 16.09   | 16.14 | 17.37  | 19.00 |
| 25   | 6.52   | 7.30  | 8.23    | 12.15         | 13.15 | 14.02  | 14.45 | 16.10   | 16.15 | 17.37  | 19.00 |
| 26   | 6.52   | 7.30  | 8.23    | 12.15         | 13.15 | 14.02  | 14.45 | 16.10   | 16.15 | 17.38  | 19.00 |
| 27   | 6.53   | 7.30  | 8.24    | 12.16         | 13.00 | 14.03  | 14.45 | 16.11   | 16.16 | 17.39  | 19.00 |
| 28   | 6.53   | 7.30  | 8.24    | 12.16         | 13.15 | 14.03  | 14.45 | 16.12   | 16.17 | 17.40  | 19.00 |
| 29   | 6.53   | 7.30  | 8.24    | 12.17         | 13.15 | 14.04  | 14.45 | 16.13   | 16.18 | 17.40  | 19.00 |
| 30   | 6.53   | 7.30  | 8.24    | 12.17         | 13.15 | 14.05  | 14.45 | 16.14   | 16.19 | 17.41  | 19.00 |
| 31   | 6.54   | 7.30  | 8.24    | 12.18         | 13.15 | 14.06  | 14.45 | 16.15   | 16.20 | 17.42  | 19.00 |

## December - 2024

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JUMADIL UKHRA

1446 H

| Mon      | Tue                  | Wed      | Thu      | Fri      | Sat      | Sun                 |
|----------|----------------------|----------|----------|----------|----------|---------------------|
| 30<br>28 | 31<br>29             |          |          |          |          | 1<br>JUMADIL ULA 29 |
| 2<br>30  | 3<br>JUMADIL UKHRA 1 | 4<br>2   | 5<br>3   | 6<br>4   | 7<br>5   | 8<br>6              |
| 9<br>7   | 10<br>8              | 11<br>9  | 12<br>10 | 13<br>11 | 14<br>12 | 15<br>13            |
| 16<br>14 | 17<br>15             | 18<br>16 | 19<br>17 | 20<br>18 | 21<br>19 | 22<br>20            |
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