



muktangan
learning & growing together

MUKTANGAN UK SCHOOL PARTNERSHIP PROGRAMME

Teacher's handbook

Years 1 & 2



Registered charity: 1155393

Dear teacher,

Thank you for downloading this handbook as part of the Muktangan School Partnership Programme!

About Muktangan

This pack was developed by the Muktangan UK Trust, which was founded in 2011 to support the work of Muktangan, a charity providing high quality education to underprivileged children in Mumbai. Whilst education across India is characterised by high dropouts and poor learning, Muktangan provides children with a holistic, high quality education which allows them to thrive. Muktangan teachers are members of the local community and are trained in house, creating a truly sustainable educational model. The success of Muktangan's innovative approach is clearly shown as 100% of students passed their final grade examinations in 2014, 2015 and 2016!

About the Muktangan UK school partnership programme

We have developed this pack to raise awareness of Muktangan through learning here in the UK. We hope that it will support schools in their delivery of high quality global citizenship learning, enabling children here in the UK to learn more about life and culture in India.

We also hope that, whilst you use the resources in your teaching, your school will be inspired to support the pupils at Muktangan. We've developed an accompanying fundraising pack with ideas to get you started. Don't forget – this pack is for years one and two, but there are packs for other academic years on our website: www.muktanganeducationaltrust.co.uk

How to use this pack

This teacher's handbook will guide you through the resources and ideas that we have developed. They have been developed by teaching professionals in the UK and all of the activities link directly to the curriculum. At the centre of the activities is the Joshi family, who you will meet on the next page. This pack includes:

- This teacher's handbook, which links together the curriculum, suggested activities and some handouts to use in your lessons
- A fundraising pack with ideas to get your school fundraising for underprivileged children in Mumbai

We hope you and your class enjoy learning more about life in Mumbai!

The Muktangan UK Trust

Meet the Joshi family!



The Joshi family live in the chawls in Mumbai. Chawls are large buildings containing single room homes that were built in the 1920s to provide cheap, basic accommodation for workers in the cotton mills of Mumbai. Each family lives and cooks in one room. There are shared toilet and washing facilities at the end of the corridor for the use of all families on each floor.

Raju, 40

Raju sells vegetables from a stall on a cart that he wheels around the area where they live in Mumbai.

He has to get up very early every morning to go to the market and buy stock for his cart. He has no refrigeration, so must only buy as many vegetables as he can sell in a day.



Nirmala, 35

Raju's wife Nirmala, is 35. She works as a maid, cleaning for people who live in apartments in the nearby area. Nirmala enjoys sewing beautiful things for her home.

Families living in the chawls are a close-knit community and everyone knows everyone else.

The Joshi family and their neighbours are Hindu. The chawl community often comes together to celebrate the many Hindu festivals.



Deepak, 6

Deepak loves going to school and playing with his friends. His best friend is a little boy called Aadit. They love playing football together. Sometimes he goes with his Dad to fetch the vegetables for their cart.

Seema, 7

Seema loves art. She spends her spare time drawing and colouring. Her favourite thing to draw is Rangoli pattern!

She also helps her Mum around the house with cooking and cleaning.



MATHS ACTIVITIES

National Curriculum subject content

Geometry – properties of shapes

Year 1:

- recognise and name common 2-D and 3-D shapes, including:
- 2-D shapes [for example, rectangles (including squares), circles and triangles]
- 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].

Year 2:

- identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line

Activity: Indian pattern - Rangoli

Help Seema design Rangoli to celebrate Diwali!

Rangoli are beautiful Indian patterns placed on the floor at the entrance to your home to welcome guests. At Diwali, Hindus draw Rangoli patterns to encourage the goddess Lakshmi to enter their homes. Look at Rangoli with your students and identify the shapes used to create the patterns. Are the patterns symmetrical?

You can also print off templates for your students to colour in, we have lots of templates [on our website](#). Your pupils may even want to design their own!

(<http://www.activityvillage.co.uk/rangoli-colouring-pages>)

Rangoli patterns



National Curriculum subject content

Measurement

Year 1:

- recognise and know the value of different denominations of coins and notes

Year 2:

- recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
- find different combinations of coins that equal the same amounts of money
- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

Multiplication and Division

Year 1:

- solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Year 2:

- calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs
- solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

Activity: Indian market stall

Help Raju sell his vegetables!

Teachers can use the market stall scenario to develop a range of one-step problems.

Tell your pupils that they are in charge of Raju Joshi's market stall. Ask them to design a poster for their stall including prices for their produce.

They can take it in turns to buy and sell, practicing their money addition and subtraction. What about if a customer wants to buy 5 bananas? Children can practice their multiplication and division too.

Pupils can produce receipts to help them add up their sales – especially if the shopping list is long!

National Curriculum subject content

Addition and subtraction

Year 1:

- read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs
- add and subtract one-digit and two-digit numbers to 20, including zero
- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.

Year 2:

- solve problems with addition and subtraction:
- using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- applying their increasing knowledge of mental and written methods

Activity: Chawl party

Families in the chawl block are having a party!

The Joshi family live in a chawl block with lots of other families. They are having a party to celebrate Diwali outside in the communal area.

There are ten families living in the block:

1. (The Raju family) Mum Dad Son Daughter	2. Mum Dad 3 sons	3. Grandma Mum Dad 4 daughters	4. Mum Dad	5. Dad 2 sons 1 daughter
6. Mum Dad 2 daughters 2 sons	7. Grandma	8. Grandma Grandpa Mum Dad 1 son	9. Mum Dad 3 sons	10. Mum Dad 1 daughter 1 son

Ask you class to complete some addition and subtraction based on the families. For example:

- If all the people living in the chawl go to the party, how many people are there?
- How many people are at the party if families 3 and 8 don't come?
- All the children go and play, how many children are there?
- The Mums and Grandmas are helping to prepare the food, how many Mums and Grandmas are there?



LITERACY LINKS: Write invitations for the Diwali party in the chawl block.

National Curriculum subject content

Statistics

Year 2:

- interpret and construct simple pictograms, tally charts, block diagrams and simple tables
- ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
- ask and answer questions about totalling and comparing categorical data.

Activity: Go to school with Seema and Deepak

Seema and Deepak travel to school on a cycle rickshaw. How do children in your class go to school? Children could collect this data and present it in a range of ways, including pictogram and tally chart.



SCIENCE ACTIVITIES

National Curriculum subject content

☑Animals, including humans

Year 1

Pupils should be taught to:

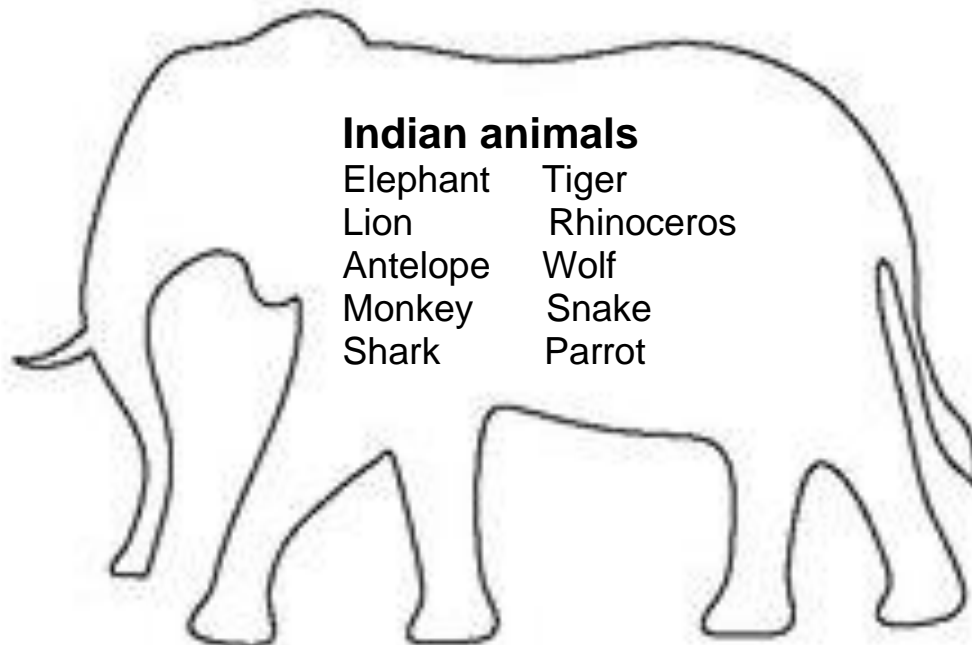
- Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals
- Identify and name a variety of common animals that are carnivores, herbivores and omnivores
- Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)

Activity: Animals in India

Take Deepak on safari!

Deepak loves animals and dreams of going on safari. His favourite books are about animals.

With your class, look at animals in India through pictures and videos. Compare and contrast the animals, describing how to identify them. Ask your class to group the animals according to what they eat (are they carnivores, herbivores or omnivores?) You can then compare this to animals in England



LITERACY LINKS: Write reports or fact files about the animals that live in India.

National Curriculum subject content

☑ Use of everyday materials

Year 2

Pupils should be taught to:

- identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

Activity: Raju's vegetable cart

Help Raju create a new vegetable cart!

Raju's vegetable cart is very old and he would like a new one. He doesn't have much money so would like to make the cart himself. Can you help him find out which material would be most suitable for creating a vegetable cart?

Discuss the properties that a cart would need to be (e.g. strong, sturdy, solid)

Test a range of every day materials and record whether they might be suitable. Explore whether the materials can be changed by squashing, bending, twisting and stretching.



GEOGRAPHY ACTIVITIES

National Curriculum subject content

Geographical skills and fieldwork

Pupils should be taught to:

- Ask and answer geographical questions (such as: What is this place like? What or who will I see in this place? What do people do in this place?)
- Use aerial images and plan perspectives to recognise landmarks and basic human and physical features; devise a simple map; and use and construct basic symbols in a key

Activity: Indian landmarks

Where should the Joshi family go on holiday?

Raju Joshi wants to take his family to see one of India's most famous landmarks but he's not sure which one. Using our list of different Indian landmarks on page 12, ask your class to think about where the Joshi family should go on holiday.

- Use maps to identify the location of the different landmarks and record them in our worksheet on the following pages. Ask your class to mark the sea, mountains and desert areas and create a simple key. There's a handy printable map on page 13.
- Discuss what the different landmarks would be like to visit. What might you see there? Who might you see there? What do people do there? Ask your class to make a brochure for each destination.



LITERACY LINKS: Imagine you are Deepak or Seema and that you have gone on holiday to one of these landmarks. Write a postcard describing your holiday.

India Landmarks



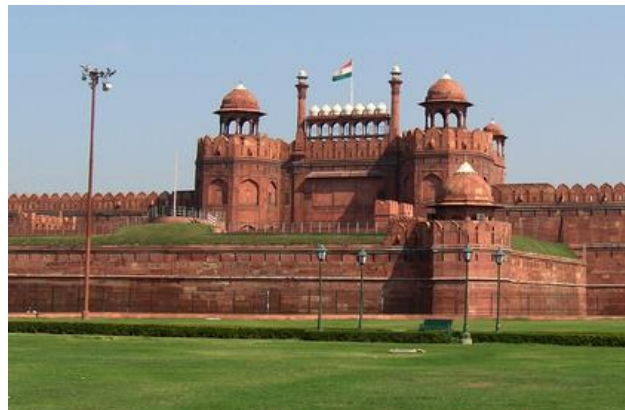
Taj Mahal (Agra)



Bollywood (Mumbai)



The Himalayas



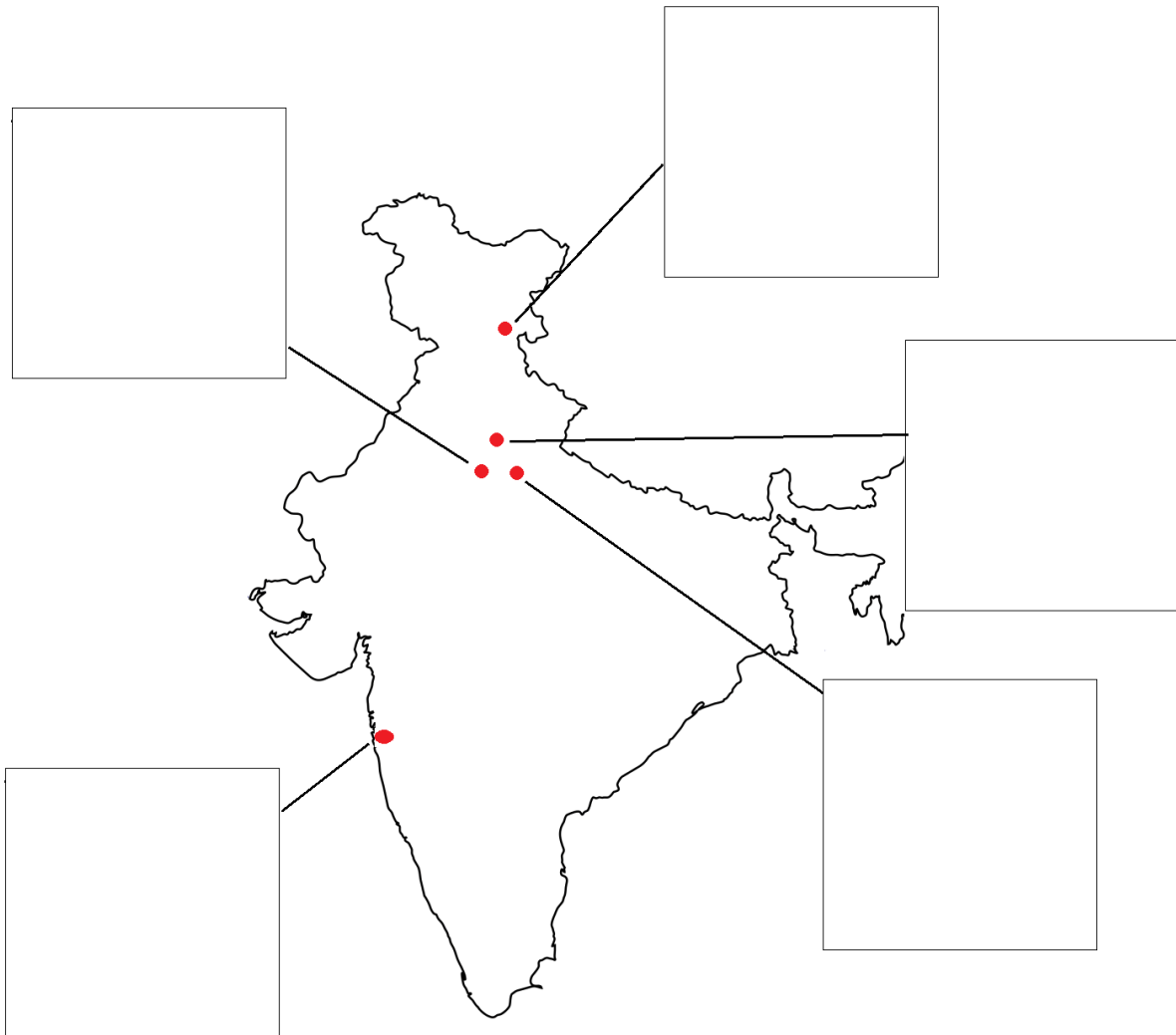
Red Fort, Delhi



Rathambore National Park

Map of India

Can you label and draw the famous Indian landmarks on the map below?



Use an atlas and find:

- An area of mountains
- The Arabian sea
- An area of desert

Label these on your map and make a key

National Curriculum subject content

☑ Place knowledge

☑ Human and Physical Geography

Pupils should be taught to:

- Understand geographical similarities and differences through studying the human and physical geography of a small area of the United Kingdom and of a contrasting non-European country.
- identify seasonal and daily weather patterns in the United Kingdom and the location of hot and cold areas of the world in relation to the Equator and the North and South Poles
- Use basic geographical vocabulary to refer to:
Key physical features, including: beach, coast, forest, hill, mountain, ocean, river, soil, valley, vegetation and weather.
Key human features, including: city, town, village, factory, farm, house, office and shop.
- Use simple fieldwork and observational skills to study the geography of their school and its grounds and the key human and physical features of its surrounding environment

Activity: Student exchange

What would it be like to swap places with Seema and Deepak?

Think about the differences between India and the UK. What would it be like if the Joshi family came on holiday to England?

- Identify India and England on a globe. Talk about continents.
- Look at aerial maps of India and England and compare key physical and human features using geographical vocabulary
- Look at the images of the Mukhtangan schools on page 15. Discuss the similarities and differences between your school and Mukhtangan.
- Show the position of the equator and discuss the impact this has on the weather in UK and Mumbai.

We would love to see your letters! Send scans or photos of your letters to Seema and Deepak and we'll include them [on our website!](#)



LITERACY LINKS: Write a letter to Seema and Deepak comparing the geography of your school, its grounds and key human and physical features. Draw images and a map of your school.

Muktangan schools

What are the differences between the Muktangan schools and your school?
Are there any similarities?
You might like to think about:

- Furniture
- Clothes
- Equipment
- What the children are doing



ART ACTIVITIES

National Curriculum subject content

Pupils should be taught:

- to use a range of materials creatively to design and make products
- to use drawing, painting and sculpture to develop and share their ideas, experiences and imagination
- to develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space
- about the work of a range of artists, craft makers and designers, describing the differences and similarities between different practices and disciplines, and making links to their own work

Printing

Use Raju's vegetables to create prints!

Press, roll, rub and stamp to make prints. Use different shapes and explore repeating patterns with your prints.



Textiles

Help Nirmala make a new wall hanging!

Create Indian inspired images on squares of fabric and join together by sewing or gluing. You could even experiment with tie dye technique, sequins or embroidering.

Create simple tie dye patterns with this technique: www.icanteachmychild.com/easy-tie-dye-art-with-baby-wipes/

Inspire your class by looking at Indian artists such as Bharti Kher. Use 2D shapes to recreate her 'Nemesis of nations'



LITERACY LINKS: Look at the features of instructions used on www.icanteachmychild.com/easy-tie-dye-art-with-baby-wipes/. Write your own set of instructions.

Sculpture

Create a holiday souvenir for the Joshi family!

Think about the landmarks you covered in Geography and create a souvenir for Seema to take home.

Use rolled up paper, straws, paper, card and clay as materials. Use techniques such as rolling, cutting, moulding and carving.

Collage

Help the Joshi family to celebrate Indian Republic Day!

Create Indian mosaic flags and learn about Indian Republic Day, when the Indian constitution came into force. The mosaics can be made from coloured paper. Explore symmetry and pattern in your designs.

You might like to create other celebratory decorations using mosaic: why not try creating peacock feathers, a popular pattern in India?



Drawing

Explore the tear drop shape!

The tear drop shape is popular in Indian design. Practice drawing this shape and explore its use in different patterns and objects such as jewellery. Practice drawing lines of different sizes and thicknesses. Show pattern and texture by adding dots and lines.