



Espresso Ideas Box: Light

Creative activities and worksheets

There are three photocopiable worksheets for this title: instructions to make a sundial, a series of rhymes and memory aids and instructions to make a Diwali diya lamp. The activities stand alone, but using them in conjunction with the book will offer a more complete learning experience.

Learning objectives:

Make a sundial:

- To understand and follow instructions to make a sundial

Memory aids:

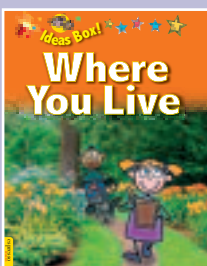
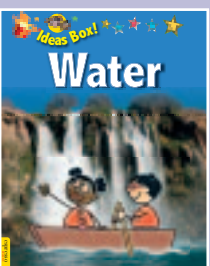
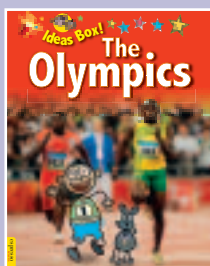
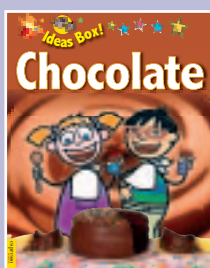
- To learn some memory aids.
- To create and learn their own memory aid.

Make a diwali diya lamp:

- To follow instructions.
- To decorate a lamp creatively.

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Make a sundial

You will need:

Thin cardboard

Tape

A wooden board

A pen or marker

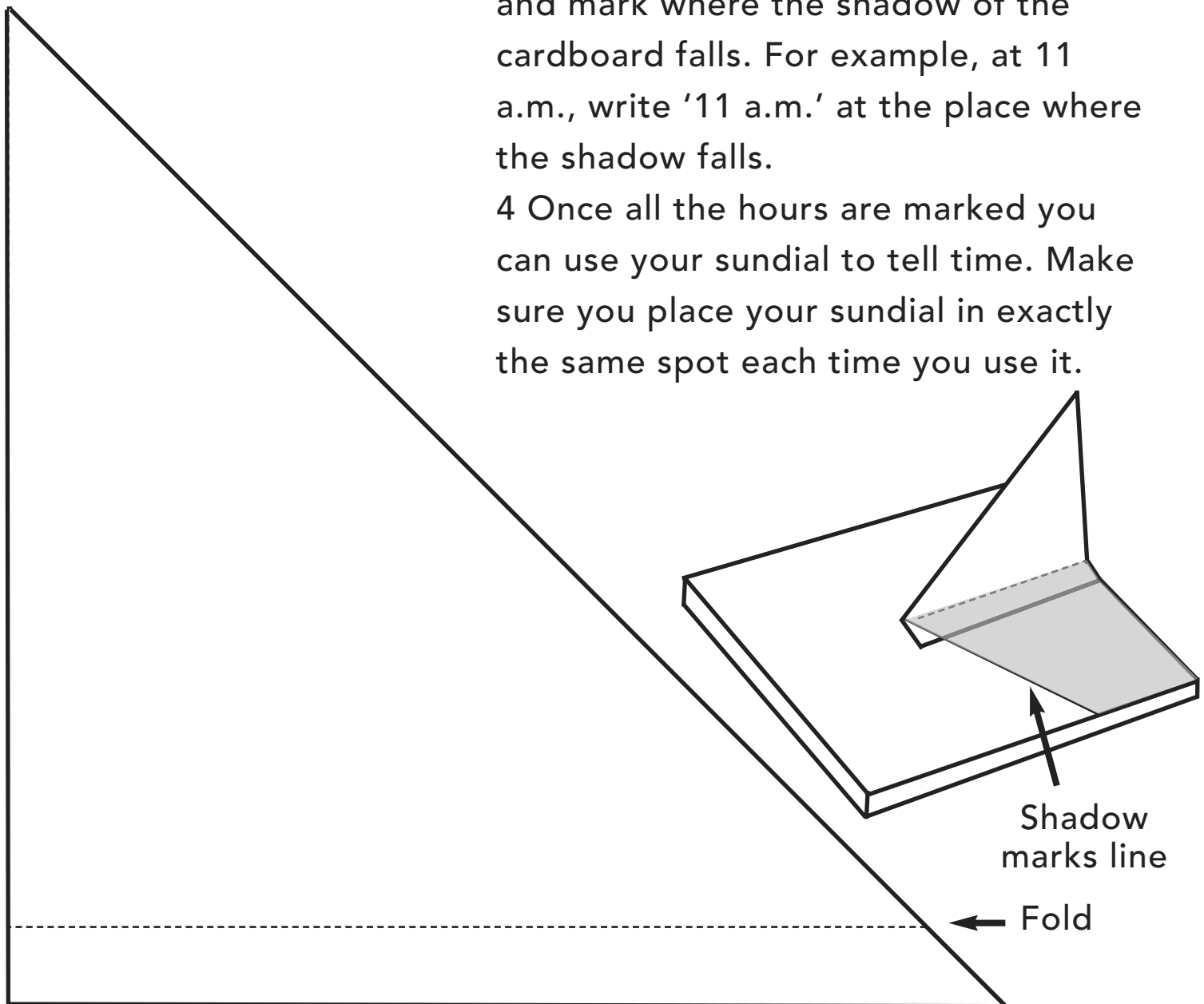
A directional compass

1 Trace or copy the illustration below onto the thin cardboard. Fold where shown and tape the cardboard upright on the wooden board.

2 Put the sundial outdoors in a sunny place. Find south with the compass and place the highest point of the triangle to face this way.

3 Starting as soon as it gets light, go to your sundial every hour on the hour, and mark where the shadow of the cardboard falls. For example, at 11 a.m., write '11 a.m.' at the place where the shadow falls.

4 Once all the hours are marked you can use your sundial to tell time. Make sure you place your sundial in exactly the same spot each time you use it.



Name: _____

Date: _____

Memory aids

Learn all these memory aids and get a friend to test you.

The colours of the rainbow

This is a well-known saying to help you remember the order of the colours of the rainbow.

*Richard of York gave battle in vain.
Red, orange, yellow, green, blue, indigo
(a dark shade of purple) and violet.*

Months of the year

*Thirty days has September,
April, June and November;
All the rest have thirty-one,
Except for February alone,
Which has but twenty-eight, that's fine,
Till leap year gives it twenty-nine.*

The order of the planets

*My Very Eager Mother Just Served Us
Nuts:
Mercury, Venus, Earth, Mars, Jupiter,
Saturn, Uranus, Neptune*

Changing clocks

Spring forward, Fall (Autumn) back
To remember how you adjust the clocks in Spring and Autumn.

Challenge!

Now make up a memory aid of your own for something you'd like to remember such as a spelling or event in history. Write it below.

Spelling

To spell 'because'. Take the first letter of each word in the sentence:
Big Elephants Can Always Understand Small Elephants

Should I use HEAR or HERE?
You HEAR with your EAR

I before E except after C,
for example: niece, brief, thief, recive

Compass directions

Never Eat Shredded Wheat
To remember the directions on a compass, place the first letter of each word in a clockwise circle starting at the 12 o'clock position: North, East, South, West

History

To remember the fate of the six wives of Henry VIII in order:

*Divorced, Beheaded, Died,
Divorced, Beheaded, Survived*



Make a Diwali diya lamp



Diwali is the Hindu festival of lights, also celebrated by Sikhs. People decorate homes, temples and other buildings with strings of electric lights and small lamps called diyas. The lights welcome the goddess of wealth, Lakshmi, and keep away evil. You can make your own diya by following the instructions below.

You will need:

Clay – ideally the sort that doesn't need to be baked
Paints in different colours
Clear fast-drying glue
Colourful, shiny sequins
Tealight candle



What to do:

- 1 Prepare the clay by rolling a piece about the size of an apple several times to remove any air bubbles.
- 2 Mould the clay into the desired shape for your Diwali diya lamp. Traditionally, diya lamps are made small enough to be held in the palm of the hand. However, you can make your diya lamp into any shape: round, square, oval or even curved.
- 3 Finish shaping your clay by using your thumb to make a depression in the centre large enough to hold a tealight candle. Allow the clay to dry for 24 hours to harden completely.
- 4 Paint your dried diya lamp. You may paint the lamp in one solid colour, or paint a pattern or design in different colours. Popular colours for Diwali include red, purple, yellow and blue. Allow the paint to dry thoroughly.
- 5 Decorate your Diwali diya lamp with the sequins. Use a small dab of clear glue to fix them onto the lamp.
- 6 Insert the tealight candle into the centre of your finished Diwali diya lamp.
- 7 Ask an adult to light the candle. Always be careful around candles and flames.