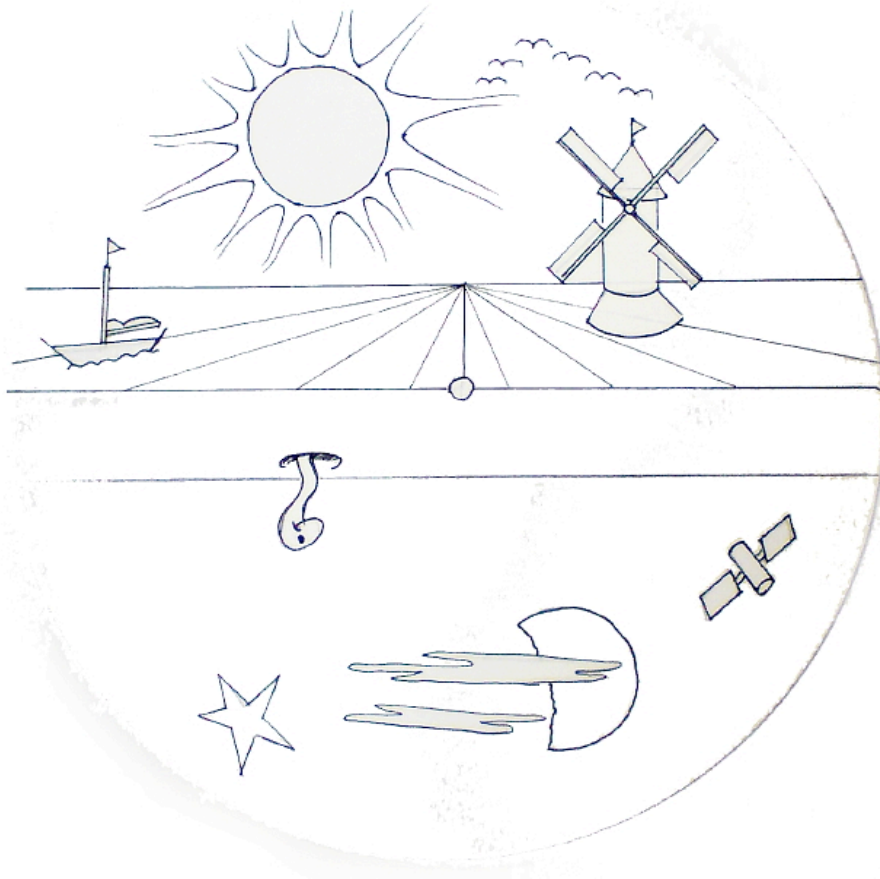




As the World Turns



Night and day are like two different worlds.
In this activity for the very youngest children, we introduce the
concept of the spinning Earth.

As the World Turns

- ★ GOAL: To show children how the Earth moves (approx) every 12 hours into shadow and then back into the light.
- ★ MATERIALS: Pencils, Paperclip, Scissors, 2 Paper plates, Ruler.
- ★ AGE GROUP: Supervised, indoor activity for 4 years and up.



WHAT TO DO:

- Draw a line through the centre of one of your paper plates so that 2 semi-circles are represented.
- Give each child one of the divided paper plates and ask them to imagine how each scene could be a picture of daytime and nighttime. Include the sky as the backdrop and orient children to the line as the horizon
- Ask the children to draw or colour in the two scenes on the paper plate; one that represents day and the other night.
- Discuss in a group and make a list of the differences between the two,

e.g.

“What do we hear at night? What animals do we see? What do we only see in the daytime?”

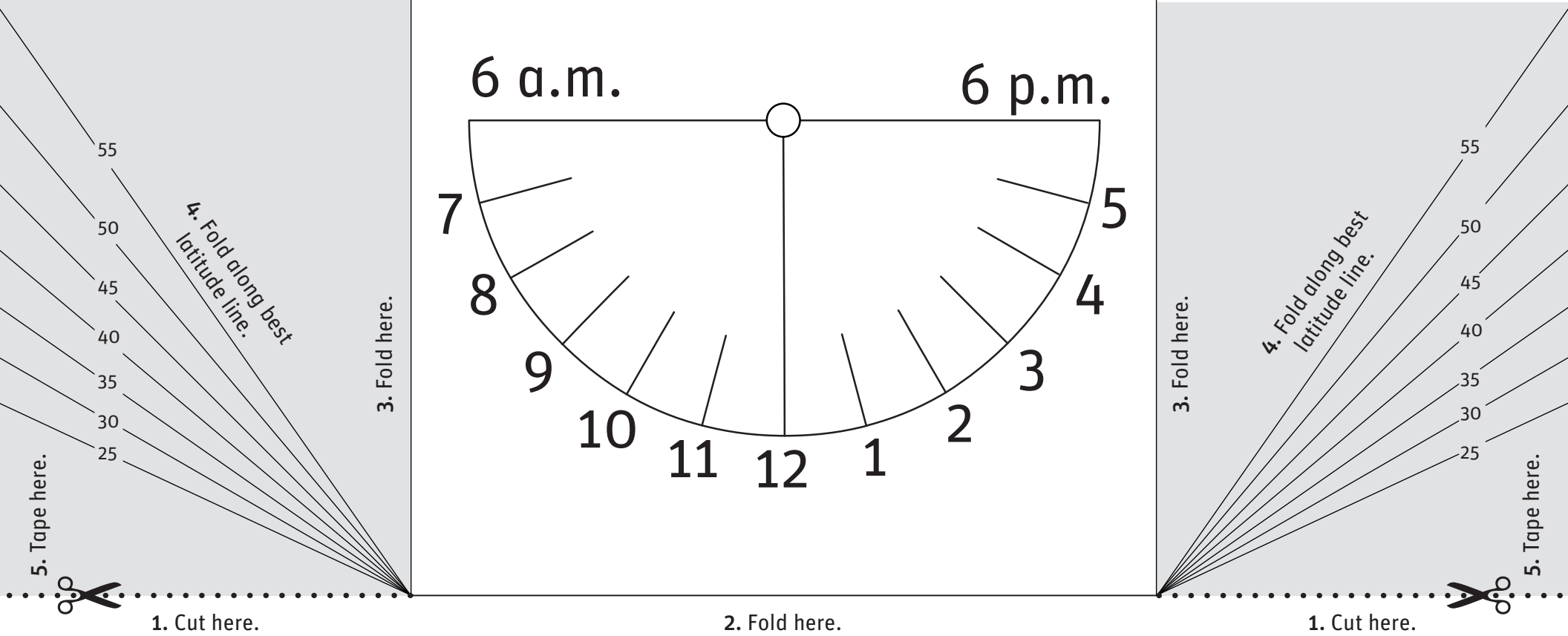
- Take the second paper plate and cut out a semi-circle so that only one scene can be seen at a time. Leave a small tab on the horizontal line so that you can fix a paper fastener through the middle of both plates
- Pin the plates together with a paper fastener and segue day into night.

Source: Paper Plate Education
Activity designed by Dave DeRemer

UNAWE is an international programme to inspire young underprivileged children with the beauty and scale of the universe. Universe Awareness illustrates the multicultural origins of modern astronomy in an effort to broaden children's minds, awaken their curiosity in science and stimulate global citizenship and tolerance.

Universe Awareness is imagination, excitement and fun in the universe for the very young.





Southern Hemisphere Sundial

1. Cut in from edge of paper along dotted lines. Stop at solid lines.
2. Fold along solid horizontal line with line on outside. Crease, then open flat again.
3. Fold along solid vertical lines with lines on outside. Crease, then open flat again.
4. Select the latitude line closest to your latitude. Fold with line outside, crease, and fold again with line on *inside*.
5. Tape the paper together as shown at right.
6. Insert a sharp pencil point-first through the small circle at top center. Remove pencil and reinsert it with the eraser first.
7. If needed for stability or durability, tape the whole thing to a sheet of cardboard.
8. Turn the sundial so the pencil points due south, as determined by a map or a compass.
9. If you can't find south, orient the sundial so that it agrees with your clock. (Subtract one hour from the clock time if you're on daylight-saving time.)

