APPENDIX

Protractor Template for Measure Your Latitude Activity



North Facing Sundial Template for **DIY Equatorial Sundial** Activity



South Facing Sundial Template for **DIY Equatorial Sundial** Activity



Planet Templates for the Step Scale Model of the Solar System

Cut these out and use them to create your step-scale model of the solar system! You can place them on the ground at the various locations indicated by the step-scale chart, or you can assign a person to stand at each location and hold that particular paper.

If we scale the solar system down by a factor of 10 billion, th Sun would have the diameter of 70 mm. That's as large as th circle (providing this page is printed on standard 8.5x11 paper).	he his
The Sun (Sol)	
	47 1880. 1997 - 1880. 1997 - 1980.
But how far apart would the planets be? Cut out these papers and the step scale to find out! Measure your steps and see if you can in a way that approximates 2 steps per meter. If stepping is inconsistent, you could use a yardstick or tape measure instead.	d use walk s too











Using a scale factor of 1/10,000,000,000, the planet Jupiter would be 7 mm in diameter (as big as the circle in this box). It would be 39 meters from the Sun.

 $^{ullet})$ 78 Steps from the Sun, 55 steps from Mars













