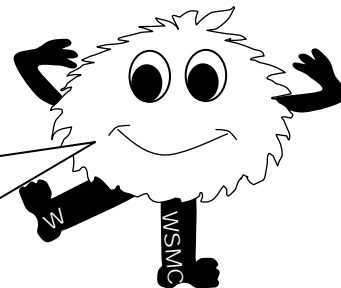


Dazzling Data

Got an idea for **Dazzling Data**?

Jot it down and send to Donna Buck, PO Box 170, Joyce, WA 98343 (electronic information can be sent to buckdj@olympen.com).



Rise and Set for the Sun



for 2006, Pacific Standard Time (add one hour for daylight time, if and when in use)

The data for the next four months in Seattle, WA, is to the right.

Students may gather and graph data for sunset and sunrise in their own town by going to the website http://aa.usno.navy.mil/data/docs/RS_OneYear.html. Graph the sunrise in one color and the sunset in another. Students can then analyze the data to answer questions and predict the patterns. :

- How Do Sunrise and Sunset Change with the Seasons?
- What happens from sunrise to sunrise from one day to the next?
- What happens from sunset to sunset from one day to the next?
- Compare data with another geographic location. Is the pattern the same? How is the data the same or different?
- Compare data from previous years.
- Compute length of given days. Find the longest/shortest days of the year.

| DAY | SEPTEMBER | | OCTOBER | | NOVEMBER | | DECEMBER | |
|-----|-----------|------|---------|------|----------|------|----------|------|
| | rise | set | rise | set | rise | set | rise | set |
| 01 | 0528 | 1850 | 0608 | 1749 | 0654 | 1652 | 0737 | 1620 |
| 02 | 0529 | 1848 | 0610 | 1747 | 0655 | 1650 | 0738 | 1619 |
| 03 | 0531 | 1846 | 0611 | 1745 | 0657 | 1649 | 0739 | 1619 |
| 04 | 0532 | 1844 | 0613 | 1743 | 0658 | 1647 | 0740 | 1619 |
| 05 | 0533 | 1842 | 0614 | 1741 | 0700 | 1646 | 0741 | 1618 |
| 06 | 0535 | 1840 | 0615 | 1739 | 0701 | 1644 | 0743 | 1618 |
| 07 | 0536 | 1838 | 0617 | 1737 | 0703 | 1643 | 0744 | 1618 |
| 08 | 0537 | 1836 | 0618 | 1735 | 0704 | 1641 | 0745 | 1618 |
| 09 | 0539 | 1834 | 0620 | 1733 | 0706 | 1640 | 0746 | 1618 |
| 10 | 0540 | 1832 | 0621 | 1731 | 0707 | 1639 | 0747 | 1618 |
| 11 | 0541 | 1830 | 0622 | 1729 | 0709 | 1638 | 0748 | 1618 |
| 12 | 0543 | 1827 | 0624 | 1727 | 0710 | 1636 | 0749 | 1618 |
| 13 | 0544 | 1825 | 0625 | 1725 | 0712 | 1635 | 0749 | 1618 |
| 14 | 0545 | 1823 | 0627 | 1723 | 0713 | 1634 | 0750 | 1618 |
| 15 | 0547 | 1821 | 0628 | 1721 | 0715 | 1633 | 0751 | 1618 |
| 16 | 0548 | 1819 | 0630 | 1719 | 0716 | 1632 | 0752 | 1618 |
| 17 | 0549 | 1817 | 0631 | 1717 | 0718 | 1631 | 0752 | 1619 |
| 18 | 0551 | 1815 | 0633 | 1716 | 0719 | 1630 | 0753 | 1619 |
| 19 | 0552 | 1813 | 0634 | 1714 | 0721 | 1629 | 0754 | 1619 |
| 20 | 0553 | 1811 | 0636 | 1712 | 0722 | 1628 | 0754 | 1620 |
| 21 | 0555 | 1809 | 0637 | 1710 | 0723 | 1627 | 0755 | 1620 |
| 22 | 0556 | 1807 | 0639 | 1708 | 0725 | 1626 | 0755 | 1621 |
| 23 | 0557 | 1805 | 0640 | 1707 | 0726 | 1625 | 0756 | 1621 |
| 24 | 0559 | 1803 | 0642 | 1705 | 0728 | 1624 | 0756 | 1622 |
| 25 | 0600 | 1801 | 0643 | 1703 | 0729 | 1623 | 0757 | 1623 |
| 26 | 0602 | 1759 | 0645 | 1701 | 0730 | 1623 | 0757 | 1623 |
| 27 | 0603 | 1757 | 0646 | 1700 | 0732 | 1622 | 0757 | 1624 |
| 28 | 0604 | 1755 | 0648 | 1658 | 0733 | 1621 | 0757 | 1625 |
| 29 | 0606 | 1753 | 0649 | 1656 | 0734 | 1621 | 0758 | 1626 |
| 30 | 0607 | 1751 | 0651 | 1655 | 0736 | 1620 | 0758 | 1626 |
| 31 | | | 0652 | 1653 | | | 0758 | 1627 |

Websource for any year, all cities and states: http://aa.usno.navy.mil/data/docs/RS_OneYear.html