





| SEPTEMBER 2012 |       |          |          |         |        |       |          |          |         | SEPTEMBER 2012 |       |          |          |         |        |       |          |          |         |
|----------------|-------|----------|----------|---------|--------|-------|----------|----------|---------|----------------|-------|----------|----------|---------|--------|-------|----------|----------|---------|
| WEEK 1         |       |          |          |         | WEEK 2 |       |          |          |         | WEEK 3         |       |          |          |         | WEEK 4 |       |          |          |         |
| DATE           | TIME  | LOCATION | ACTIVITY | REMARKS | DATE   | TIME  | LOCATION | ACTIVITY | REMARKS | DATE           | TIME  | LOCATION | ACTIVITY | REMARKS | DATE   | TIME  | LOCATION | ACTIVITY | REMARKS |
| 1              | 08:00 | 01       | 01       | 01      | 1      | 08:00 | 01       | 01       | 01      | 1              | 08:00 | 01       | 01       | 01      | 1      | 08:00 | 01       | 01       | 01      |
| 2              | 08:00 | 01       | 01       | 01      | 2      | 08:00 | 01       | 01       | 01      | 2              | 08:00 | 01       | 01       | 01      | 2      | 08:00 | 01       | 01       | 01      |
| 3              | 08:00 | 01       | 01       | 01      | 3      | 08:00 | 01       | 01       | 01      | 3              | 08:00 | 01       | 01       | 01      | 3      | 08:00 | 01       | 01       | 01      |
| 4              | 08:00 | 01       | 01       | 01      | 4      | 08:00 | 01       | 01       | 01      | 4              | 08:00 | 01       | 01       | 01      | 4      | 08:00 | 01       | 01       | 01      |
| 5              | 08:00 | 01       | 01       | 01      | 5      | 08:00 | 01       | 01       | 01      | 5              | 08:00 | 01       | 01       | 01      | 5      | 08:00 | 01       | 01       | 01      |
| 6              | 08:00 | 01       | 01       | 01      | 6      | 08:00 | 01       | 01       | 01      | 6              | 08:00 | 01       | 01       | 01      | 6      | 08:00 | 01       | 01       | 01      |
| 7              | 08:00 | 01       | 01       | 01      | 7      | 08:00 | 01       | 01       | 01      | 7              | 08:00 | 01       | 01       | 01      | 7      | 08:00 | 01       | 01       | 01      |
| 8              | 08:00 | 01       | 01       | 01      | 8      | 08:00 | 01       | 01       | 01      | 8              | 08:00 | 01       | 01       | 01      | 8      | 08:00 | 01       | 01       | 01      |
| 9              | 08:00 | 01       | 01       | 01      | 9      | 08:00 | 01       | 01       | 01      | 9              | 08:00 | 01       | 01       | 01      | 9      | 08:00 | 01       | 01       | 01      |
| 10             | 08:00 | 01       | 01       | 01      | 10     | 08:00 | 01       | 01       | 01      | 10             | 08:00 | 01       | 01       | 01      | 10     | 08:00 | 01       | 01       | 01      |
| 11             | 08:00 | 01       | 01       | 01      | 11     | 08:00 | 01       | 01       | 01      | 11             | 08:00 | 01       | 01       | 01      | 11     | 08:00 | 01       | 01       | 01      |
| 12             | 08:00 | 01       | 01       | 01      | 12     | 08:00 | 01       | 01       | 01      | 12             | 08:00 | 01       | 01       | 01      | 12     | 08:00 | 01       | 01       | 01      |
| 13             | 08:00 | 01       | 01       | 01      | 13     | 08:00 | 01       | 01       | 01      | 13             | 08:00 | 01       | 01       | 01      | 13     | 08:00 | 01       | 01       | 01      |
| 14             | 08:00 | 01       | 01       | 01      | 14     | 08:00 | 01       | 01       | 01      | 14             | 08:00 | 01       | 01       | 01      | 14     | 08:00 | 01       | 01       | 01      |
| 15             | 08:00 | 01       | 01       | 01      | 15     | 08:00 | 01       | 01       | 01      | 15             | 08:00 | 01       | 01       | 01      | 15     | 08:00 | 01       | 01       | 01      |
| 16             | 08:00 | 01       | 01       | 01      | 16     | 08:00 | 01       | 01       | 01      | 16             | 08:00 | 01       | 01       | 01      | 16     | 08:00 | 01       | 01       | 01      |
| 17             | 08:00 | 01       | 01       | 01      | 17     | 08:00 | 01       | 01       | 01      | 17             | 08:00 | 01       | 01       | 01      | 17     | 08:00 | 01       | 01       | 01      |
| 18             | 08:00 | 01       | 01       | 01      | 18     | 08:00 | 01       | 01       | 01      | 18             | 08:00 | 01       | 01       | 01      | 18     | 08:00 | 01       | 01       | 01      |
| 19             | 08:00 | 01       | 01       | 01      | 19     | 08:00 | 01       | 01       | 01      | 19             | 08:00 | 01       | 01       | 01      | 19     | 08:00 | 01       | 01       | 01      |
| 20             | 08:00 | 01       | 01       | 01      | 20     | 08:00 | 01       | 01       | 01      | 20             | 08:00 | 01       | 01       | 01      | 20     | 08:00 | 01       | 01       | 01      |
| 21             | 08:00 | 01       | 01       | 01      | 21     | 08:00 | 01       | 01       | 01      | 21             | 08:00 | 01       | 01       | 01      | 21     | 08:00 | 01       | 01       | 01      |
| 22             | 08:00 | 01       | 01       | 01      | 22     | 08:00 | 01       | 01       | 01      | 22             | 08:00 | 01       | 01       | 01      | 22     | 08:00 | 01       | 01       | 01      |



Parsons 1933



Andrew 1938



Powers 1940



Witty 1941

Types of internal-axis machines PLM (B) Chart 8 1/1



Wankel 1949



Lind 1914



Lind 1914



Lind 1914



Wankel 1947



Wankel 1947

(Galloway  
PLM - 1948)(Savoy & Phipps  
PLM - 1939)

Types of internal-axis machines SIM (A) Chart 7 1/2



3-1

(invented as SIM  
by Cooley 1933)

3-2

(invented as SIM  
by Cooley 1933)

4-3

(invented as SIM  
by Cooley 1933)

5-4



6-5

etc.

Molloy  
about 1916(invented as SIM by  
Franzen and Fahlbeck 1931)

Wankel 1947



Wankel 1945

Types of internal-axis PLM (C4) Chart 9 (PLM) 18/7



Types of internal-axis PLM (CI) Group PLM 1815



Types of internal-axis SIM (CI) Group SIM 1810



Types of internal-axis PLM (SII) Group PLM 1817



Types of internal-axis SIM (SII) Group SIM 1812