**Data Table** **Tip:** Set motor speed slow (and keep same). Watch the cams spin while you count.

left cams

right cams

|  |  |  |
| --- | --- | --- |
| **Cam Arrangement** | **Observations** (sound and motion)  | (re-start count) |
| **Left Cams** (under left arm) | **Right Cams** (under right arm) | 1st Count | 2nd Count | 3rd Count | 4th Count | 1st Count |
| C:\Users\frieda.COFFEE\AppData\Local\Microsoft\Windows\INetCache\Content.Word\cams up-dn.png **A**(one cam up, one down)  | C:\Users\frieda.COFFEE\AppData\Local\Microsoft\Windows\INetCache\Content.Word\cams left-rt.png  (one cam forward,one back) | (Example:)**LEFT beat****(fast rhythm) (each arm moves opposite the other)** | **RIGHT beat** | **LEFT beat** | **RIGHT beat** | **LEFT beat** |
|  **B**(both cams up) | C:\Users\frieda.COFFEE\AppData\Local\Microsoft\Windows\INetCache\Content.Word\cams down.png (both cams down) |  |  |  |  |  |
| C:\Users\frieda.COFFEE\AppData\Local\Microsoft\Windows\INetCache\Content.Word\cams up.png **C**(both cams up) | C:\Users\frieda.COFFEE\AppData\Local\Microsoft\Windows\INetCache\Content.Word\cams left.png(both cams back) |  |  |  |  |  |
| C:\Users\frieda.COFFEE\AppData\Local\Microsoft\Windows\INetCache\Content.Word\cams up.png**D**(both cams up) | C:\Users\frieda.COFFEE\AppData\Local\Microsoft\Windows\INetCache\Content.Word\cams left-rt.png (one cam forward,one back) |  |  |  |  |  |

**Key Question:** What is the relationship between the cams and the rhythms?

**Challenge:** Make your own rhythms.

|  |  |  |
| --- | --- | --- |
| **Cam Arrangements** | **Observations** (sound and motion)  | (re-start count) |
| **Left Cams** | **Right Cams** | 1st Count | 2nd Count | 3rd Count | 4th Count | 1st Count |
|  **E** |   |  |  |  |  |  |
| **F** |  |  |  |  |  |  |
|  **G** |  |  |  |  |  |  |
| **H** |   |  |  |  |  |  |