

Montgomery Township Schools  
Department of Pupil Services-Speech/Language

**Iowa-Nebraska Articulation Norms-1996**

Recommended ages of acquisition for phonemes and clusters, based generally on  
90% levels of acquisition.

| Phonemes          | Females    | Males      |
|-------------------|------------|------------|
| /m/               | 3-0        | 3-0        |
| /n/               | 3-6        | 3-0        |
| /ng/              | 7-0 to 9-0 | 7-0 to 9-0 |
| /h-/              | 3-0        | 3-0        |
| /w-/              | 3-0        | 3-0        |
| /y-/ (ie: yellow) | 4-0        | 5-0        |
| /p/               | 3-0        | 3-0        |
| /b/               | 3-0        | 3-0        |
| /t/               | 4-0        | 3-6        |
| /d/               | 3-0        | 3-6        |
| /k/               | 3-6        | 3-6        |
| /g/               | 3-6        | 4-0        |
| /f/ /f-/          | 3-6        | 3-6        |
| /-f/              | 5-6        | 5-6        |
| /v/               | 5-6        | 5-6        |
| /th-/ (ie: thumb) | 6-0        | 8-0        |
| /th-/ (ie: that)  | 4-6        | 7-0        |
| /s/               | 7-0 to 9-0 | 7-0 to 9-0 |
| /z/               | 7-0 to 9-0 | 7-0 to 9-0 |
| /sh/              | 6-0        | 7-0        |
| /ch/              | 6-0        | 7-0        |
| /j/ (ie: jump)    | 6-0        | 7-0        |
| /l/ /l-/          | 5-0        | 6-0        |
| /-l/              | 6-0        | 7-0        |
| /r/ /r-/          | 8-0        | 8-0        |
| /er/ (ie: butter) | 8-0        | 8-0        |

| Word Initial Clusters  | Females    | Males      |
|------------------------|------------|------------|
| /tw kw/                | 4-0        | 5-6        |
| /sp st sk/             | 7-0 to 9-0 | 7-0 to 9-0 |
| /sm sn/                | 7-0 to 9-0 | 7-0 to 9-0 |
| /sw/                   | 7-0 to 9-0 | 7-0 to 9-0 |
| /sl/                   | 7-0 to 9-0 | 7-0 to 9-0 |
| /pl bl kl gl fl/       | 5-6        | 6-0        |
| /pr br tr dr kr gr fr/ | 8-0        | 8-0        |
| /thr/                  | 9-0        | 9-0        |
| /skw/                  | 7-0 to 9-0 | 7-0 to 9-0 |
| /spl/                  | 7-0 to 9-0 | 7-0 to 9-0 |
| /spr str skr/          | 7-0 to 9-0 | 7-0 to 9-0 |