1 The Nasal Consonants

- like oral resonants, they are produced by alteration of resonating cavities but with two important differences
  - the velopharyngeal port is open permitting resonation in the nasal cavity
  - the oral cavity is completely closed off at some point, forcing the flow of breath through the nasal cavity
- all three are voiced; no cognates

2 /m/

- key word: my, team, camera
- place: bilabial
- manner: nasal
- voicing: voiced
- note: same place of production with /p/ and /b/: difference by manner defines sounds as homorganic

3 Production

- with lips closed, voice directed to open v-p port to the nasal cavity and out the nose
- tongue lies flat in mouth or positioned for next vowel sound
- provides for resonation of the voice in oral cavity as well as resonation in the nasal cavity

4 Orthography

- 8 different spellings: m is primary
- mm - hammer
- mb - comb
- mn - hymn
- -lm - calm
- gm - phlegm, diaphragm

5 Characteristics

- one of the first consonants to be acquired by kids
- 90% by 3 years: 50% by 1.6
- appears in initial, middle and final: me, among, arm
- one of the most frequent: 8th
- seldom misarticulated
- problems with clogged nasal passages

6 /n/

- key word: net
- place: (lingua) alveolar
- manner: nasal
- voicing: voiced
- homorganic to /t/ and /d/

7 Orthography
- n is primary spelling
- nn- inn
- kn - silent k in knife, knit
- gn - gnaw
- -gn - sign
- pn- pneumonia
- mn - mnemonic

8 Characteristics
- learned early: 90% at 3 years
- appears in initial, middle and final: nail, dinner, pan
- 2nd of all consonants in frequency
- not a problem for non native speakers or children
- /d/ may occur in kids with runny noses

9 /m/ and /n/ as syllabic consonants
- when either follows homorganic sound, may function as whole syllable
- no vowel present
- identified with diacritical marking of dot under symbol

10 / / unique symbol
- key word: song, singer
- place: velar
- manner: nasal
- voicing: voiced
- homorganic to /k/ and /g/

11 Characteristics
- ng is primary spelling
- 90% mastery at 6
- the least frequent of the nasals: 17th of consonants
- for kids and non-native speakers, /g/ may be final added sound or word produced with /n/ like sinin' for singing

12 Unique Features
- never beings a word in English
- precedes homorganic sounds
- variable pronunciation of homorganic sound
- decide when the homorganic sound is pronounced following /l/ in these words:
– sink, tank, english, longing, singing, sphinx