1. Vocal tract and articulation positions

(1) Browse the following sites to get more info about this topic:

http://www.unil.ch/ling/page24434.html
http://www.sil.org/mexico/ling/glosario/c005b%2Dorgansart.htm
http://www.umanitoba.ca/faculties/arts/linguistics/russell/138/sec1/anatomy.htm

(2) Side profile views of the head

http://www.abdn.ac.uk/langling/resources/midsagsection.jpg
http://www.abdn.ac.uk/langling/resources/midsagsectionbw.jpg

(3) A website for you to practice the general picture of the iculation positions for each consonant

http://www.chass.utoronto.ca/~danhall/phonetics/sammy.html

(4) A website for you to match the sound with the animated articulation positions

http://web.tiscali.it/davidbrett/phonology/Speech_anim.htm
2. The X-ray movie of the AP changes

The X-ray video
(The X-ray video is provided by Ladefoged, UCLA)

Why did Ken put the soggy net on top of his desk?
I have put blood on her two clean yellow shoes.

3. Vocal Organs (detailed info)

Hard palate
Soft palate
Tongue
Oral part of pharynx
Epiglottis
Vocal fold
Larynx
Trachea
Esophagus
4. Can I name the articulation positions now?
5. Vocal Organs

(1) Vocal folds/cords

http://www.humnet.ucla.edu/humnet/linguistics/faciliti/demos/vocalfolds/vocalfolds.htm
http://www.voicedoctor.net/media/video/female.html
http://www.sci.mus.mn.us/sound/vrml/vocal/vocalcu.htm

(2) A voyage to the vocal organs (a movie)
http://www.ncvs.org/ncvs/tutorials/youngexp/fantasticvoyage.html

Voiced /b/
Voiceless /p/

6. The articulators (the upper surface)

The principal parts of the upper surface of the vocal tract.

![Diagram of the upper surface of the vocal tract]
7. The articulators (the lower surface)

8. Places of articulation of English

(1) Labial: using the lips
(2) Coronal: using the tip or blade of the tongue
(3) Dorsal: using the back of the tongue
9. Bilabial

/m/ /b/ /p/
10. Labiodental

/v/ /v/  

11. Dental/interdental

/e/ and /e/
12. Alveolar

/t/

/n/ and /d/
13. Retroflex

/ʂ/

14. Palato-Alveolar/post-alveolar

/ʃ/ and /ʒ/
15. Palatal

Consider this chart

/ɪ/
16. Velar

/k/ and /g/

17. The oro-nasal process

(1) Velar in “hang” -- /ŋ/
(2) Alveolar in “ran” -- /n/
(3) Bilabial in “ram” -- /m/
17. The oro-nasal process

(1) Velar in “hang” -- /ŋ/
(2) Alveolar in “ran” -- /n/
(3) Bilabial in “ram” -- /m/

18. Manners Stops

(1) Stops
   Oral stop: /t/ /d/
   Nasal:/-n/ /n-/ /m/
(2) Fricatives
   Labiodental -- /f/ /v/
   Dental -- /θ/ /ð/
   Alveolar -- /s/ /z/
   Palato-alveolar -- /ʃ/ /ʒ/
(3) Affricates
   Church, judge, etc. /ʃʃ/ /ʒʒ/
(4) Lateral (Approximant)
   Incomplete closure between one or both sides of the tongue
   and the roof of the mouth -- /l/ /r/
(5) Approximant
   The palatal area -- /j/
   The alveolar region -- /w/
19. Additional terms

Trill (or roll) and tap (or flap)

Rye

http://www.spanishprograms.com/pron.swf

Pity, better, etc. /piɾi/ /ˈbɛɾə/
21. Articulation of vowel sounds in motion

Locate the “vowel space” and get the basic qualities of the vowel of American English.

22. Practice the following items (Ex)

Example:
“Sting”
**Lateral (Approximant)**

Incomplete closure between one or both sides of the tongue and the roof of the mouth -- /l/ /ɹ/