

Homework 2**(1) Squamish (British Columbia) (30 pts)**

[C'] = glottalized consonant

[tʃ̥] = voiceless palato-alveolar affricate

[C^w] = labialized (rounded) consonant

[χ] = voiceless uvular fricative

[ts̥] = voiceless dental affricate

[tʃ̥] = voiceless lateral affricate (dental)

[C̥] = voiceless liquid or nasal

[ɭ] = **uvular liquid**

[ε̄ε] is a diphthong

[x] = voiceless velar fricative

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|---------------------------------------|---------------|-------------------------------|---------------------------|
| 1. [tʃ̥εʔ] | 'there is' | 16. [χε:q] | 'scratch' |
| 2. [q'ε̄εt̥] | 'be morning' | 17. [tʃ̥e:tʃ̥] | 'top' |
| 3. [t'ε:q ^w] | 'cold' | 18. [q'ε:χ̄ε̄εʔ] | 'become black' |
| 4. [χ ^w ε:q ^w] | 'be arrested' | 19. [t̄m̄ε:x ^w] | 'earth, ground' |
| 5. [χ̄ε̄εp'] | 'get touched' | 20. [ql̄e:m] | 'weak' |
| 6. [t̄se:x ^w] | 'reach' | 21. [sq'ε̄εʔ] | 'slices of dried salmon' |
| 7. [tseʔ] | 'feel cold' | 22. [χ ^w ε̄εʔ] | 'be lost' |
| 8. [k ^w e:n̄] | 'few' | 23. [neʔt̄] | 'high seas' |
| 9. [wε:t̄q ^w t̄] | 'ask' | 24. [k ^w t̄seʔts̄] | 'person with magic power' |
| 10. [te:] | 'this' | 25. [sl̄ε:t̄] | 'bunch of blankets' |
| 11. [n̄əq'ε:t̄os] | 'wise' | 26. [χ ^w ε:t̄ʔ] | 'come out' |
| 12. [x ^w aʔε̄εt̄n̄] | 'white man' | 27. [nsq̄ε̄en̄m̄] | 'rub oil in one's hair' |
| 13. [le:x ^w] | 'fall' | 28. [st̄æq̄taq̄ε̄ew] | 'horses' |
| 14. [t̄ʃ̥'ε:q] | 'arrive' | 29. [mε:χ̄æt̄] | 'black bear' |
| 15. [ʔe:] | 'be here' | | |

Questions:

- (a) Provide phonetic charts for consonants and vowels.
- (b) The sounds [e:, e, ε:, ε̄ε] are in complementary distribution, and form a single phoneme. List the environments in which the sounds occur. State the underlying form of the phoneme, and write rules to derive the other allophones. You will find that it is necessary to apply the rules in a particular order; state what this order is and **provide sample derivations to motivate the orderings**. Wherever this seems helpful, include prose to explain what you are doing. If you get stuck, just describe the environments for each allophone concisely and I will give partial credit.