

AVDT Mentee Preparation – Quiz 1

Answer Key

1. Compare and contrast Hedstrom files and Kerr files using the following criteria:

Hedstrom Kerr

* 1. Usage motion in-out in-rotate-pull out
	2. Strength Not as strong, but sharper Stronger, but not as sharp
	3. Manner of manufacture Flutes are cut out Machined
	4. Direction of cut Cuts only during pull Cuts in all directions
1. Compare and contrast magnetostrictive (ferrite rod and ferromagnetic stack) and piezoelectric scalers using the following criteria:
	1. Portion of the tip that is active (we are looking for a length in mm)
		1. Ferrite rod - 12mm (entire tip)
		2. Ferromagnetic stack – distal 4mm of tip
		3. Piezoelectric – distal 3mm of tip
	2. The pattern of the tip’s vibration
		1. Ferrite rod – elliptical pattern
		2. Ferromagnetic stack – figure 8 pattern
		3. Piezoelectric – Linear pattern
2. List the muscles of mastication and the actions of each.
	1. Temporalis – closes mouth
	2. Medial pterygoid – closes mouth
	3. Lateral pterygoid- closes mouth
	4. Masseter – closes mouth
	5. Digatstric – opens mouth
3. What are two ways to determine if a tooth if vital and explain?
	1. Transillumination with produce a pink hue if vital and a dark or gray of non-vital
	2. Radiographs to compare the size of the pulp canal to the contralateral tooth or another vital tooth
		1. A vital tooth with have the same size pulp canal whereas a non-vital tooth with have a much large pulp canal.
4. Use the word pool provided below to describe the dentition of the following species (each of the species listed will have multiple terms):

Canine, Feline, Lagomorphs, Caviomorph rodents, Murine rodents, Horse, Shark, Mustelids

Word pool:

Brachyodont

Monophyodont

Diphyodont

Polyphyodont

Heterodont

Homodont

Aradicular hypsodont

Radicular hypsodont

Elodont

Canine, Felines and mustelids: heterodont, diphyodont, brachyodont

Lagomorphs: heterodont, diphyodont, elodont, aradicular hypsodont

Caviomorph rodents: heterodont, monophyodont, elodont, aradicular hypsodont

Murine rodents: heterdont, monophyodont, aradicular hypsodont/elodont incisors, brachydont molars

Horse: heterodont, diphyodont, radicular hypsodont

Shark: polyphyodont, homodont