

TRUETOOTH®

TRUE Anatomy.

Practice More.

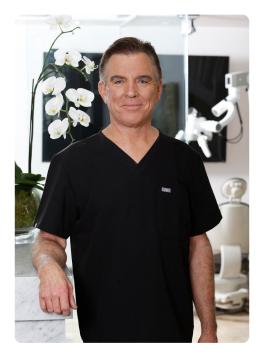
Pay Less.











L. Stephen Buchanan, DDS, FICD, FACD

Founder and Executive Director of

PlanB Dental[®] Goleta, California, USA.

TrueTooth® Replicas are radiopaque.

TrueTooth® Transparent Replicas are available as Accessed TrueTooth® Replicas.

Each tooth is rated on a scale of 1 to 5 - 1 being beginner/simple anatomy, 5 being advanced/more complicated anatomy.

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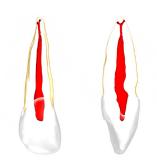
6-01 Maxillary Cuspid



Maxillary Cuspid with a single root. The pulp chamber is medium to large in size. The canal is ribbon-shaped until the apical third where it rounds out, exiting at the exact root apex in an atypically small terminus (0.14mm).

No. of Root	No. of Canals	Difficulty Factor: 3
1	1	

7-01 Maxillary Lateral Incisor



Maxillary Lateral Incisor with a large pulp chamber so it is an easy access challenge, however, the primary canal bifurcates in its final 1.5mm, forming a "Y" as each branch departs the primary canal path at 450 requiring file bending to reach patency.

No. of Roots	No. of Canals	Difficulty Factor: 3
1	1	

8-01 Maxillary Central Incisor

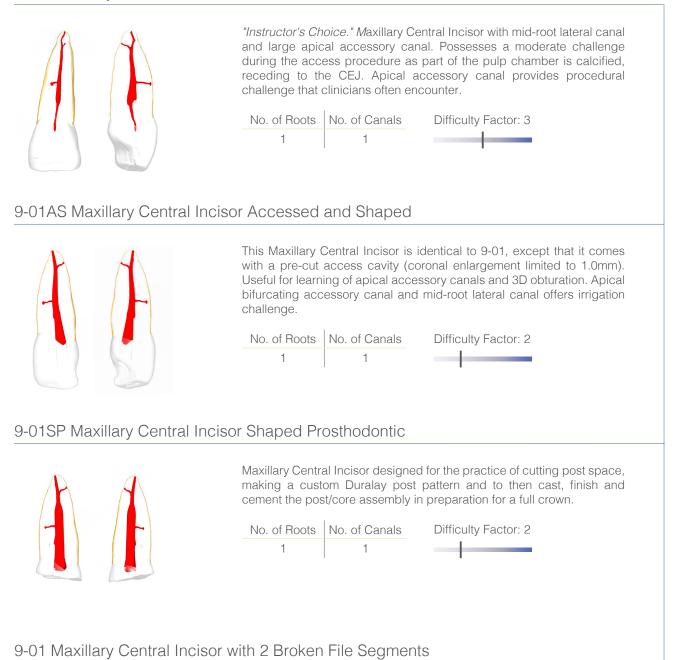


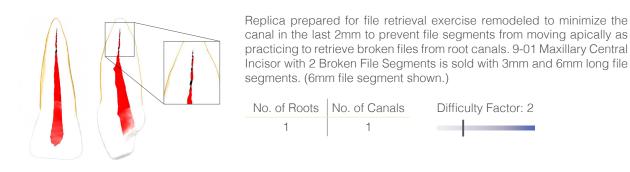
Maxillary Central Incisor has an un-calcified pulp chamber with slight to moderate mesial and distal lateral pulp horns. Replica works well for beginners. Fairly large shape in the primary root canal space, ending with nice apical constricture.

No. of Roots	No. of Canals	Difficulty Factor: 1
1	1	

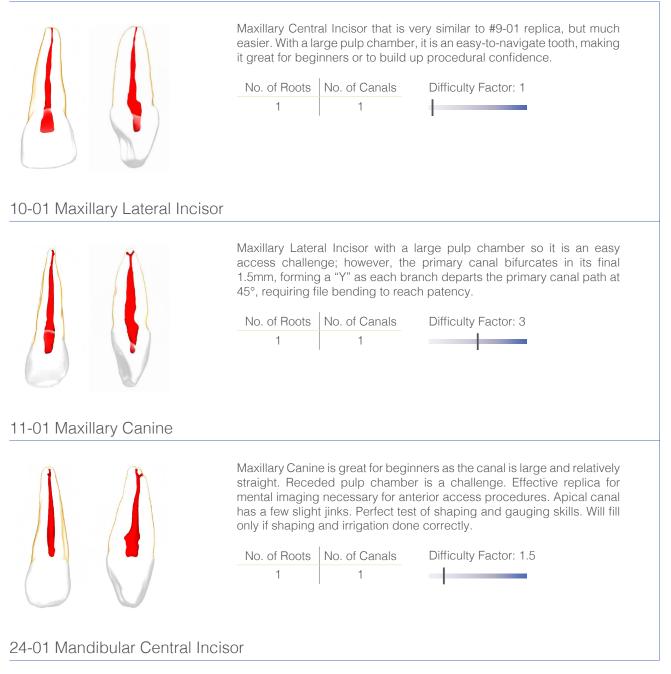


9-01 Maxillary Central Incisor with Lateral Canals





9-02 Maxillary Central Incisor



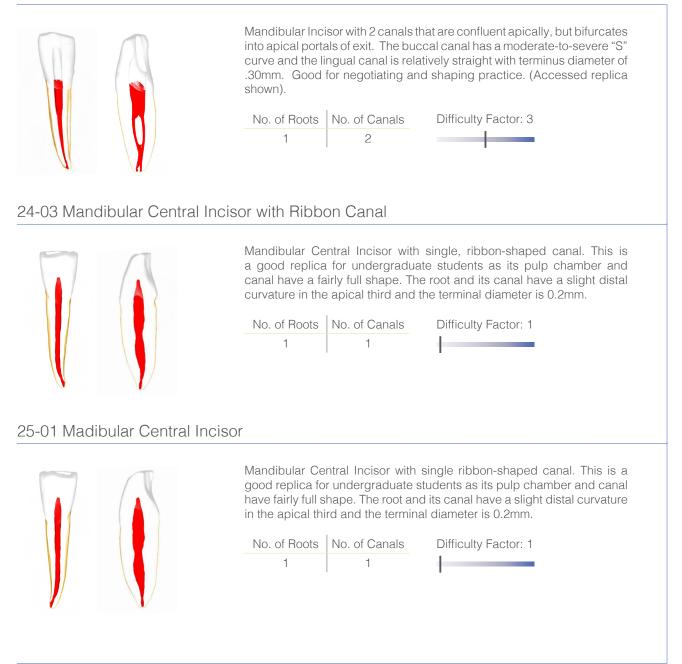


Mandibular Incisor has an un-calcified pulp chamber allowing easy location during access procedures. Root and canal have a subtle "S" curve, the canal has significant buccal and lingual fin projections. A perfect starter tooth to demonstrate small canal shaping.

No. of Roots	No. of Canals	Difficulty Factor: 1
1	1	



24-02 Mandibular Central Incisor with Confluent Canals



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4-01 Maxillary Premolar



Maxillary Premolar having ovoid canal bifurcates mid-root into two canals; one of them "S" curved, rejoining before exiting as one. This tooth replica is a good challenge to obturate.



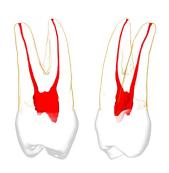
4-02 Maxillary Premolar with Receded Pulp Chamber



Premolar with pulp chamber that has receded to near the CEJ level; however, it is normal size once found. The root is bent 40°-50° in a smooth, continuous curve beginning at the CEJ. The canal inside quickly narrows to exit at the exact root apex.

No. of Roots	No. of Canals	Difficulty Factor: 3
1	1	

5-01 Maxillary Premolar

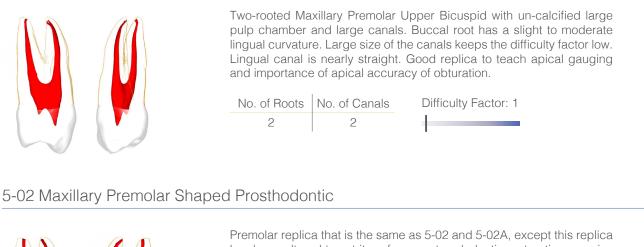


Simple 2-rooted Maxillary Premolar Upper Bicuspid. Pulp chamber exceeds 1.5mm coronal to CEJ. Buccal pulp horn is 3mm under occlusal surface and lingual horn is 5mm away. Buccal canal slight to moderate curvature and lingual canal nearly straight. Buccal canal .15mm diameter. Lingual canal .28mm diameter.



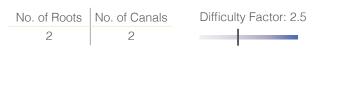


5-02 Maxillary Premolar with Uncalcified Pulp Chamber

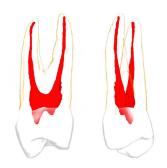




Premolar replica that is the same as 5-02 and 5-02A, except this replica has been altered to set it up for a post-endodontic restorative exercise by removing the lingual half of the coronal structure.



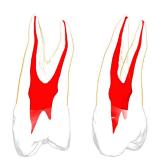
12-01 Maxillary Upper Premolar



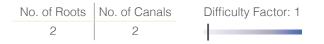
Simple Maxillary Premolar Upper Bicuspid. Pulp chamber exceeds 1.5mm coronal to CEJ. Buccal pulp horn is 3mm under occlusal surface and lingual horn is 5mm away. Buccal canal slight to moderate curvature, and lingual canal nearly straight. The buccal canal is 0.15mm diameter. The lingual canal is 0.28mm diameter.



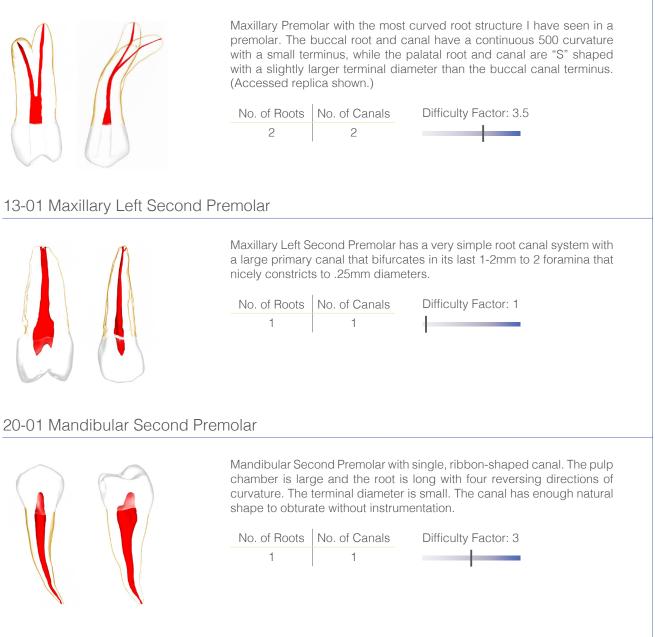
12-02 Maxillary Upper Premolar with Uncalcified Pulp Chamber



Maxillary Premolar Upper Bicuspid with un-calcified, large pulp chamber and large canals. Buccal root has a slight to moderate lingual curvature. Large size of the canals keeps the difficulty factor low. Lingual canal is nearly straight. Good replica to learn apical gauging and importance of apical accuracy of obturation.



12-03 Maxillary Upper Premolar with Extreme Root Curvature



28-01 Mandibular First Premolar

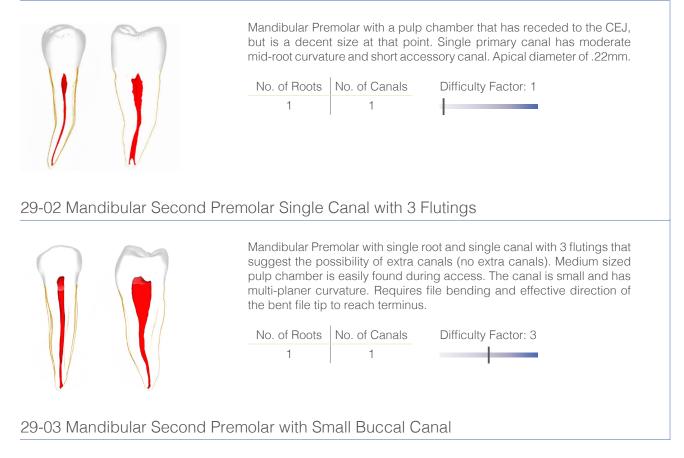


Mandibular First Premolar with a large pulp chamber and taurodont-like canal that bifurcates mid-root into two separate canals with separate apical portals of exit. The buccal canal is easy to find, the lingual takes off at bit of an angle, requiring intermediate skills to negotiate. The buccal canal has an accessory canal that branches 3mm before terminating.





29-01 Mandibular Second Premolar





Mandibular Premolar classic replica that looks easy at onset. Relatively simple with negotiating challenges in small buccal canal. Additionally, the fins and isthmus are nearly the full length between both canals.



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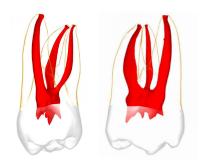
1-01 Maxillary Third Molar



Simple Third Molar with large pulp chamber. The DB and palatal canals are fairly large in diameter from orifice to terminus. The MB root has a slight to moderate distal curve but the canal inside has a 90° re-bent curvature as it terminates on the mesial surface of that root.

No. of Roots	No. of Canals	Difficulty Factor: 2
3	3	

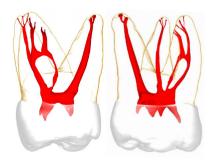
2-01 Maxillary Second Molar



Maxillary Second Molar canals have a wide range of apical diameters– from .25mm to .80mm, making this an excellent training replica for learning apical management. The .80mm palatal canal is also an excellent anatomic form for teaching MTA fills of large open apex canals.

ſ	No. of Roots	No. of Canals	Difficulty Factor: 2
	3	3	

3-01 Maxillary First Molar with Moderately Calcified Pulp Chamber

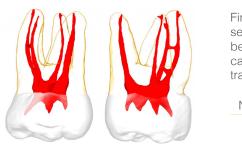


This is the quintessential 4-canal Maxillary Molar. Pulp chamber has moderate calcification, MB2 canal has apical terminus separate from the MB1, each communicating twice through mid-root isthmuses and ultimately bifurcating in the last 1-2mm's. Palatal canal has a large .39mm apical diameter with buccal kick.





3-02 Maxillary First Molar MB2 Canal with Ladder-run Isthmus Forms



First Molar with medium sized pulp chamber. The MB2 has its own separate portal of exit and there are two ladder-rung isthmus forms between them. The buccal canals have small apical diameters, the palatal canal narrows to 0.3mm. This is a slightly advanced undergraduate training replica-it has four canals but the MB2 is fairly tame.



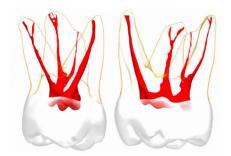
3-03 Maxillary First Molar



Maxillary First Molar with large canal orifices, 3 portals of exit and large pulp chamber 3-4mm from the occlusal surface. The MB canal system is more an ovoid orifice slimming to a single, round canal exiting the root, than two canals that are confluent. All three canals are slightly immature with large apical diameters.



3-04 Maxillary First Molar with Three-and-a-Half Roots



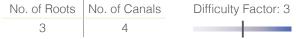
Maxillary Molar calcified pulp chamber with a 1-2mm height remaining. The MB1 canal has two apical accessory canals, the MB2 canal bifurcates off the MB1 about 3mm above the pulp chamber floor and exits alone. The DB canal bifurcates 3mm from length. The P is as straight as an arrow while the other canals have slight curvature.



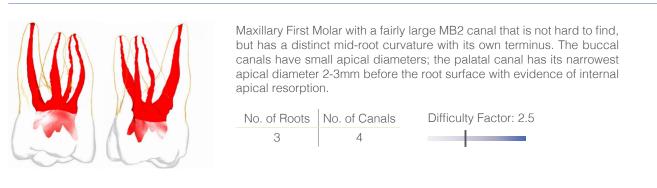
14-01 Maxillary Left Frist Premolar



Maxillary Left First Molar has a large pulp chamber and canals. Ovoid MB orifice bifurcates 1MM below the orifice into MB1 and MB2 canals with their own portals of exit. MB1 canal has an immature apex, making it an excellent anatomic form to learn MTA placement. MB2 is easily shaped and filled by conventional method.



14-02 Maxillary First Premolar



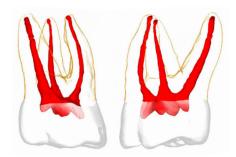
15-01 Maxillary Second Molar with Moderately Curved Canals



Maxillary Molar has only 3 canals, but each with a significant challenge. Palatal canal is relatively straight with a very large apical diameter of 4.5mm. Single MB canal is ribbon-shaped with moderate curvature. DB canal is severely curved through its length, but progressively tightens.

No. of Roots	No. of Canals	Difficulty Factor: 4
3	3	

15-02 Maxillary Second Molar with Slighly Curved Canals



Maxillary Second Molar with moderate calcification of the pulp chamber and only three canals having little curvature. It is a good replica for undergraduate dental students or beginners.



15-03 Maxillary Second Molar with Curved Buccal Roots

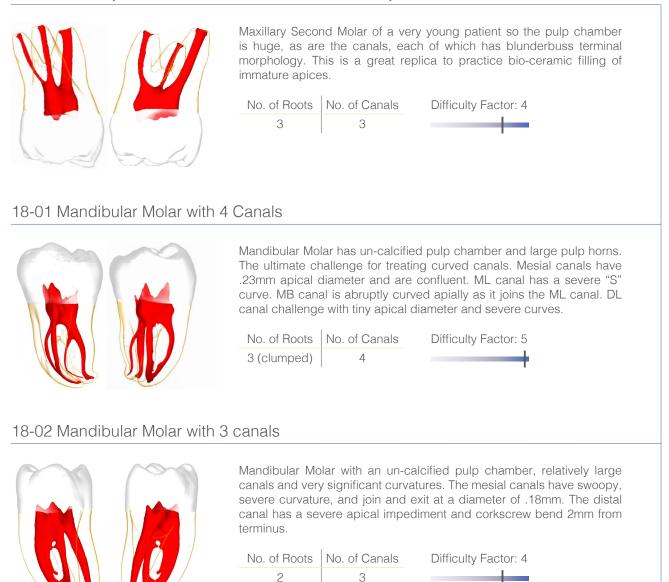


Maxillary Second Molar with big curves in buccal roots. The pulp chamber is moderately calcified. There are only three canals, but the buccal roots and their resident canals have severe mid-root and apical third curvature. This is a perfect replica for learning to manage curved canals with rotary files.

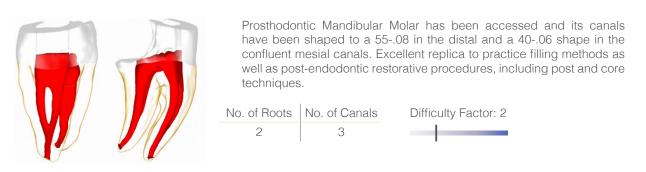




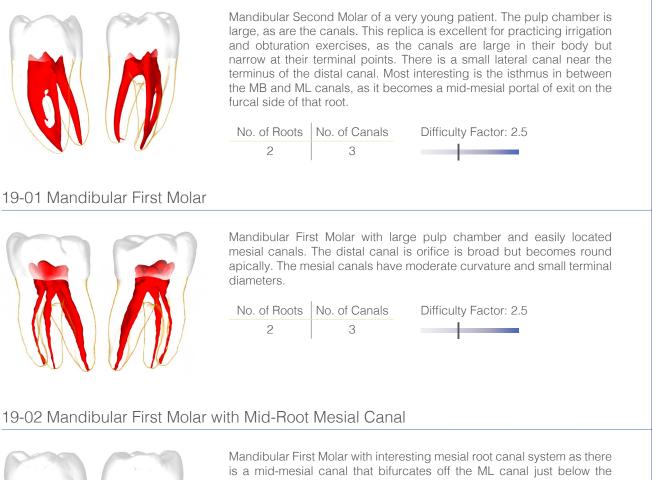
15-04 Maxillary Second Molar with Immature Anatomy



18-03 Shaped Prosthodontic Mandibular Molar



18-04 Mandibular Second Molar - Undergrad Model



Mandibular First Molar with interesting mesial root canal system as there is a mid-mesial canal that bifurcates off the ML canal just below the orifice, heading down and across the root to join the MB canal 1mm above the point of confluence with the ML canal. The mesial root and canals have a moderate mid-root curvature with a slight re-curvature in the apical third.



19-03 Mandibular First Molar with Curved Mesial RCS

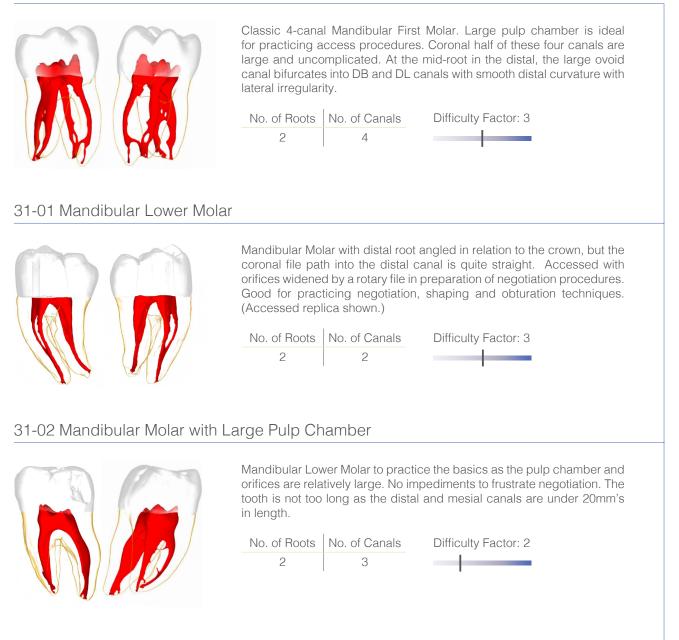


Mandibular Molar with an un-calcified pulp chamber and large pulp horns. It has a wildly curved mesial root canal system with two primary canals, bent in three different directions. The distal canal has a mid-root bend, and apical diameter of .28mm.





30-01 Mandibular First Molar



31-03 Mandibular Molar - Beginner Model



Mandibular Molar beginner's tooth designed to learn shaping and obturation in a continuous, but modestly curving mesial canal.

No. of Roots	No. of Canals	Difficulty Factor: 2.5
2	2	

31-04 Mandibular Second Molar with C Shaped Root Structure



Mandibular Second Molar with "C" shaped root structure. This replica has a large pulp chamber and three individual canals below its classic "C" shaped orifice. The D canal has a near 70° abrupt bend. The MB canal swings back and joins it. The ML canal has classic "C" shaped morphology with a moderate distal curvature that reverses 90° just before exiting on the mesial side of the root apex. At the apex of this last bend, an accessory canal bifurcates, joining the MB as it joins the D canal. This tooth is the most difficult negotiation challenge in the TrueTooth[®] library. File-bending plier needed.



32-01 Mandibular Molar



Mandibular Molar with slight calcification in the pulp chamber. Single mesial canal that is relatively large and severely curved with a .29mm apical diameter. Distal canal has a slight "S" curve with a large apical diameter of .45mm. An excellent training challenge for shaping procedures.

No. of Roots	No. of Canals	Difficulty Factor: 3
2	2	

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5-02 Maxillary Premolar Shaped Prosthodontic



Premolar replica that is the same as 5-02 and 5-02A, except this replica has been altered to set it up for a post-endodontic restorative exercise by removing the lingual half of the coronal structure.



9-01AS Maxillary Central Incisor Accessed and Shaped



This Maxillary Central Incisor is identical to 9-01, except that it comes with a pre-cut access cavity (coronal enlargement limited to 1.0mm). Useful for learning of apical accessory canals and 3D obturation. Apical bifurcating accessory canal and mid-root lateral canal offers irrigation challenge.



9-01SP Maxillary Central Incisor Shaped Prosthodontic

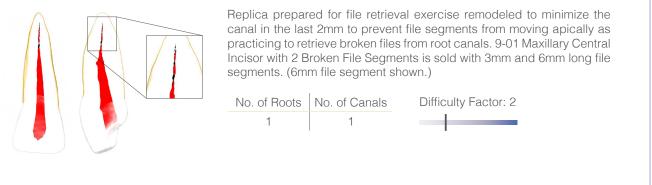


Maxillary Central Incisor designed for the practice of cutting post space, making a custom Duralay post pattern and to then cast, finish and cement the post/core assembly in preparation for a full crown.





9-01 Maxillary Central Incisor with 2 Broken File Segments



18-03 Shaped Prosthodontic Mandibular Molar



Prosthodontic Mandibular Molar has been accessed and its canals have been shaped to a 55-.08 in the distal and a 40-.06 shape in the confluent mesial canals. Excellent replica to practice filling methods as well as post-endodontic restorative procedures, including post and core techniques.

No. of Roots	No. of Canals	Difficulty Factor: 2
2	3	

TRUETOOTH[®] are 3D Printed Training Replicas of human teeth– anterior, bicuspid and molars–designed for teaching access, negotiation, shaping, irrigation and obturation for root canal iterative training.

TrueTooth[®] Replicas are exact reproductions of both the internal and external surfaces of human teeth.

TrueTooth[®] Replicas are radiopaque.

TrueTooth[®] Replicas are scored to anatomical difficulty factor 1-5.

Transparent replicas are for hands-on, iterative training. Opaque replicas are for standardized testing after training.



All TrueTooth® Replicas are exact, radiopaque reproductions of both the internal and external surfaces of human teeth.

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