

# Scenario-based Clinical Exam Information and Sample Cases



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# Cast-Radiograph Evaluation



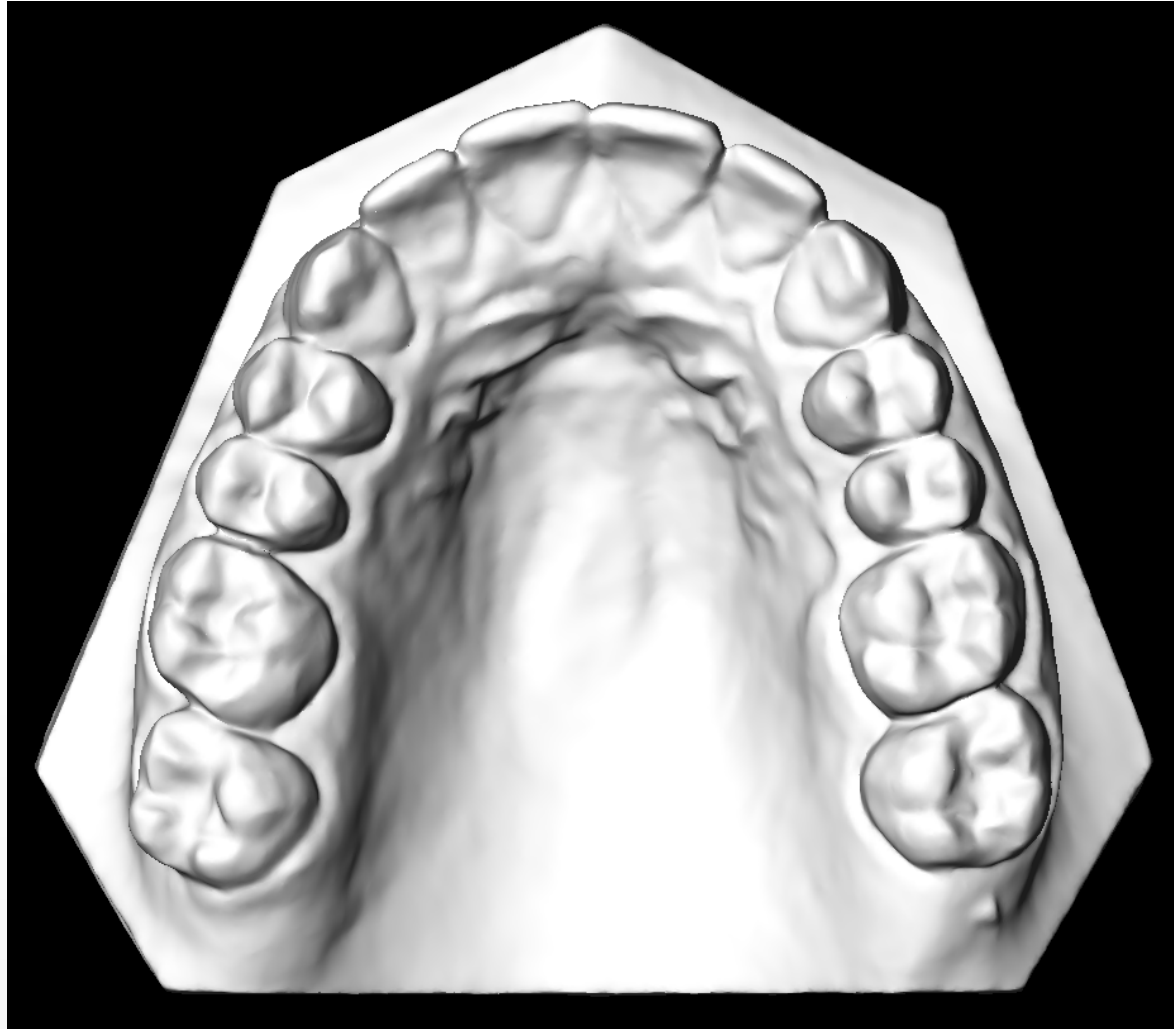
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For the Cast-Radiograph Evaluation examinees will be shown images of models and panoramic radiographs and will be asked to answer questions based on the information provided.

# CRE Sample Case Records

	Board Score
Alignment/Rotations	6
Marginal Ridges	2
Buccolingual Inclination	3
Overjet	6
Occlusal Relationships	9
Root Angulation	5
Total	31

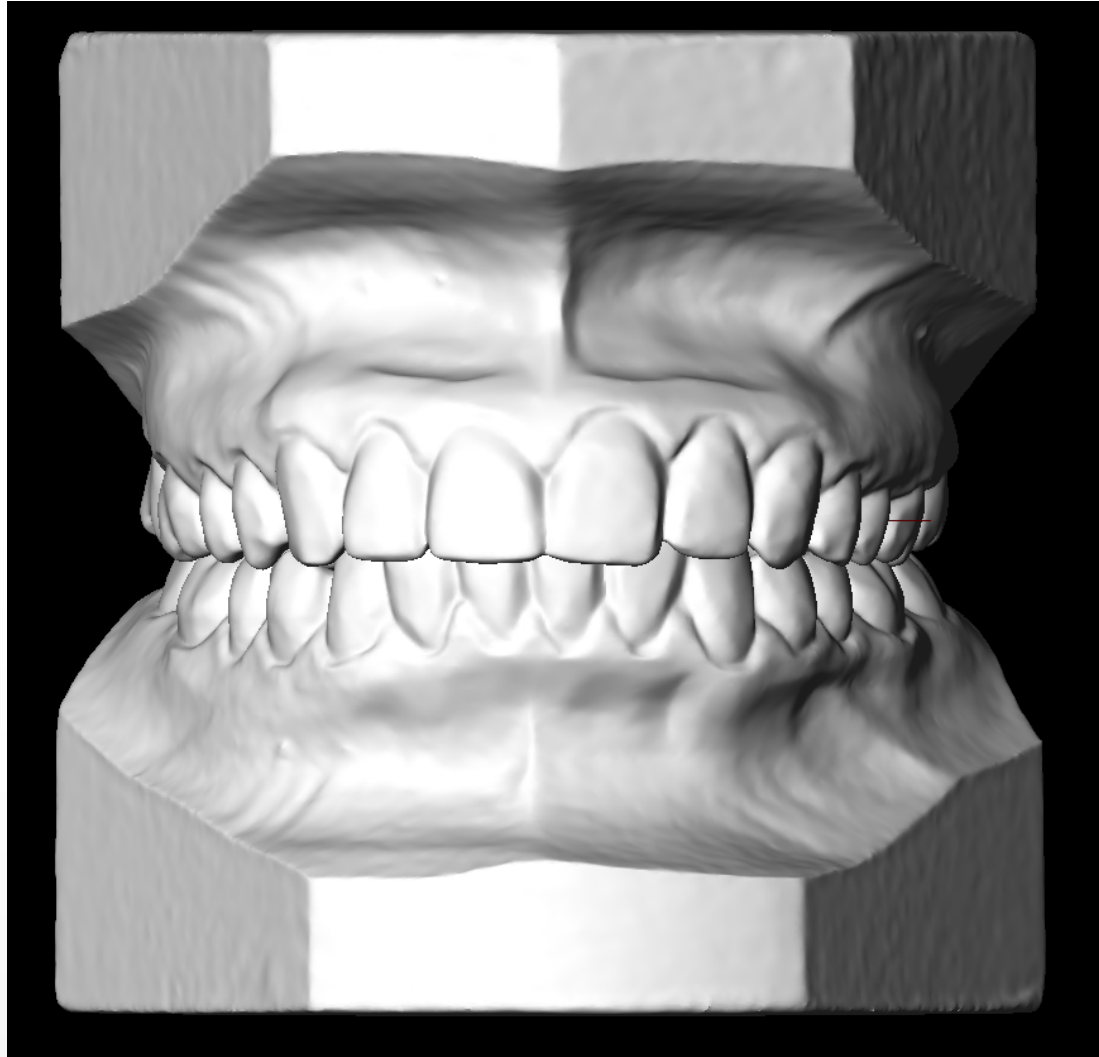
# CRE Sample Case Records



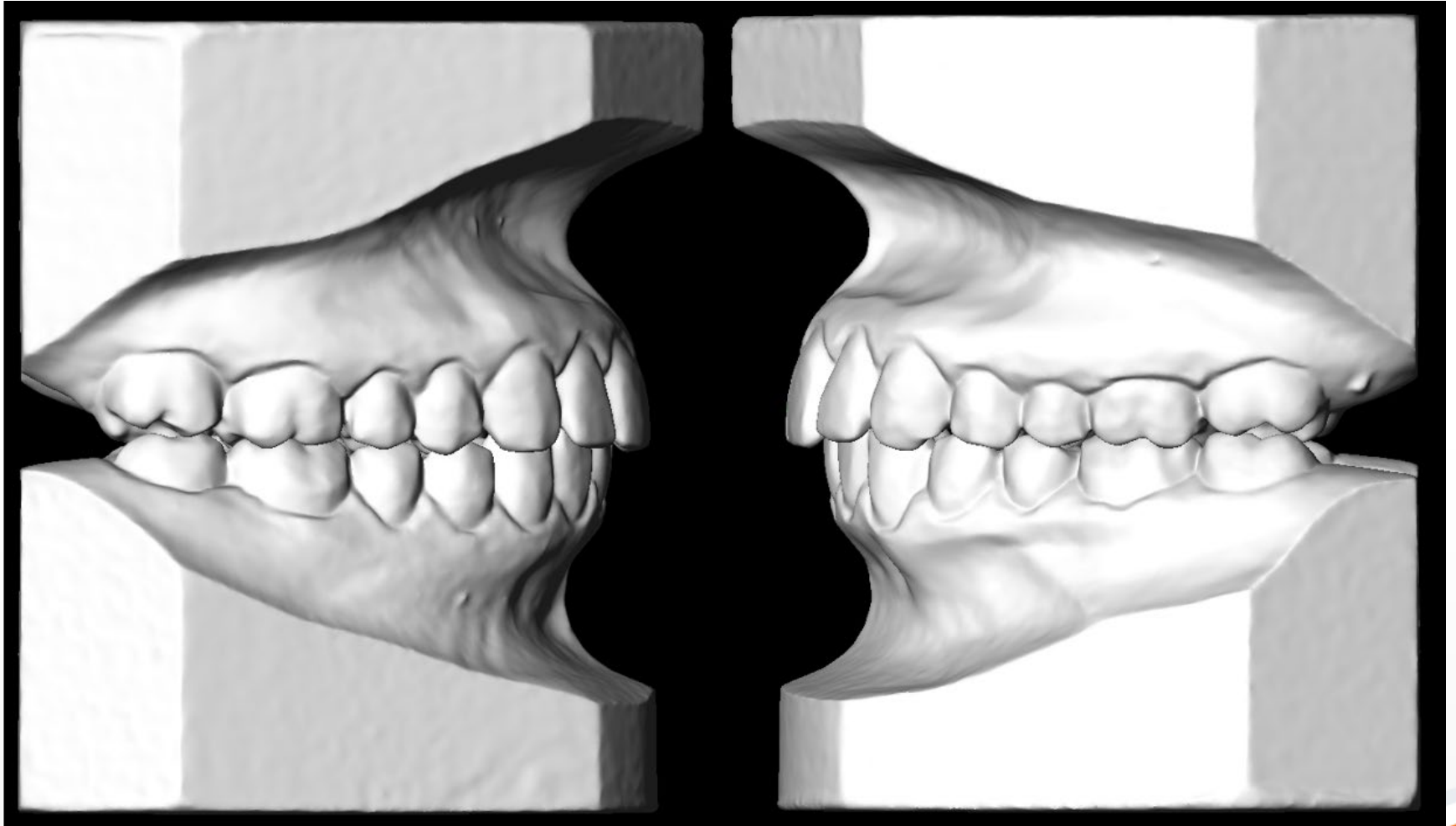
# CRE Sample Case Records



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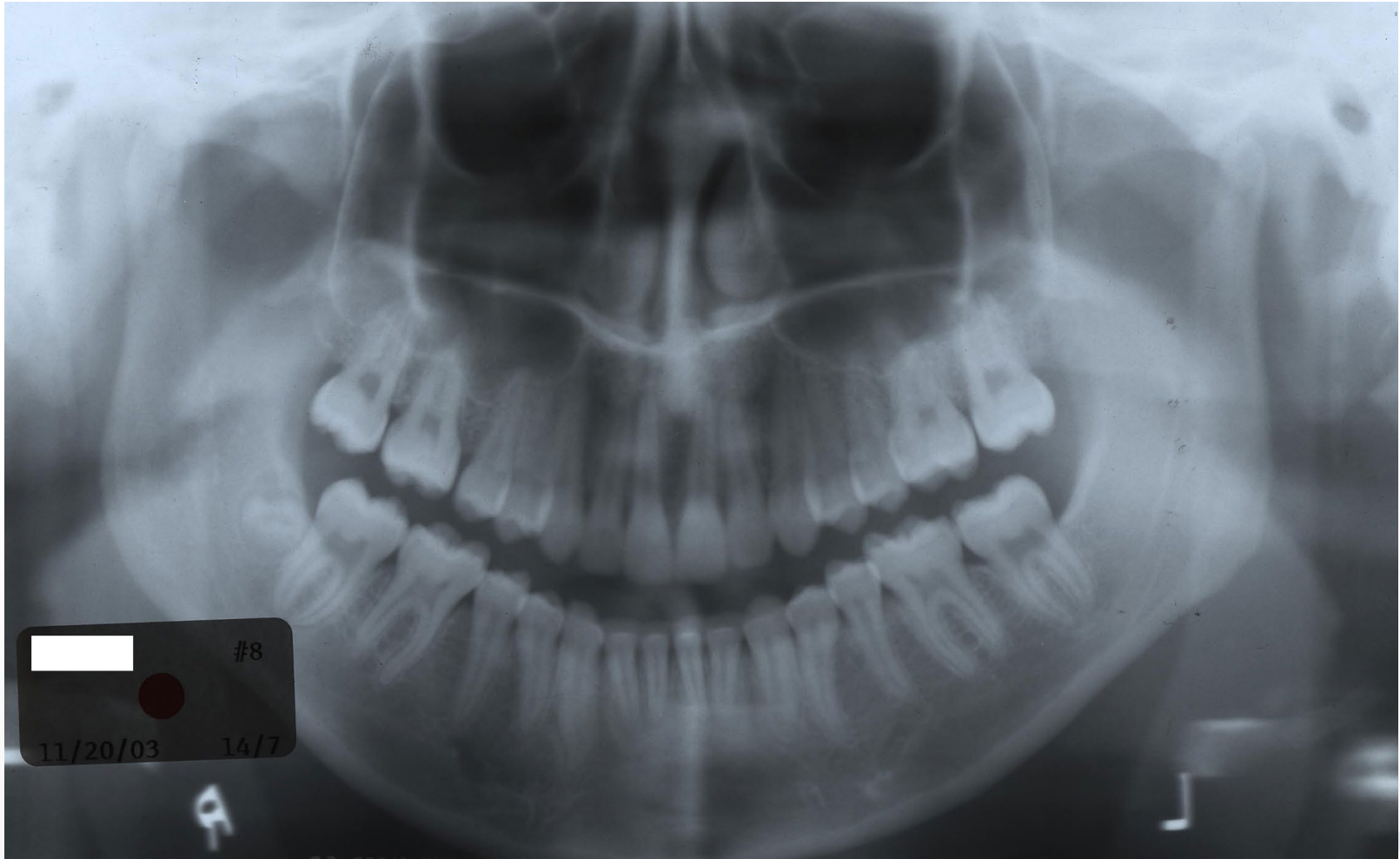


# CRE Sample Case Records





# CRE Sample Case Records



# CRE Sample Question

## Question 1

### Classification

Domain 4: Critical Analysis and Outcomes Assessment

### Prompt

The CR-Eval score for occlusal relationships was 9. What are possible future relapse/outcome tendencies due to this CR-Eval score? Please respond in numbered list format below.

### Model Responses

The board expects a fully proficient response for this question to include five or more of the following:

- Worsening of the Class II occlusion
- Undesirable occlusal wear / attrition of enamel patterns
- Increased overjet
- Increased overbite
- Deepening of the Curve of Spee
- Increased incisal / gingival display

# CRE Sample Question

## Question 2

### Classification

Domain 4: Critical Analysis and Outcomes Assessment

### Prompt

In numbered format, list actions that could reduce the total CR-Eval score for this patient.

### Model Responses

The board expects a fully proficient response for this question to include five or more of the following:

- Bracket repositioning as needed to improve rotations
- Use of auxiliaries or elastomerics for correction of rotations
- Incorporate bends in AW's to improve alignment / rotations
- Bracket repositioning as indicated to improve root angulation
- Class II mechanics to improve occlusal relationships
- Apply torque to buccal segments to improve buccolingual inclination

# Superimposition



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The Examinee will be presented with some or all of the following case records, as needed:

- Initial photo montage
- Initial intraoral photographs
- Initial panoramic radiograph
- Initial lateral cephalogram
- Initial hand-wrist radiograph
- Final photo montage
- Final intraoral photographs
- Final panoramic radiograph
- Final lateral cephalogram
- Final superimpositions

# Superimposition Sample Question

## Question 1

### Classification

Domain 4: Critical Analysis and Outcomes Assessment

### Prompt

Assuming the time between pre- and post-treatment records was 34 months, what dental changes occurred as a direct result of treatment? Please respond in numbered list format below.

### Model Responses

The number of responses required to attain a fully proficient or borderline proficient score will depend on the changes that are observed in the superimposition relative to normal growth during the treatment interval.

# Case Management Form (CMF)



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# CMF Sample Question

## Question 1

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, and the pre-treatment skeletal analysis (see example below).

	PRE TX A
SNA°	81.0
SNB°	72.0
ANB°	9.0
SN-MP°**	48.0
FMA°	39.0



# CMF Sample Question

## Question 1

### Classification

Domain 2: Treatment Objectives and Planning

### Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

### Prompt

Using the lateral cephalometric analysis and the CMF chart, identify appropriate skeletal treatment objectives. Please respond in numbered list format below.

### Model Responses

The board expects a fully proficient response for this question to include:

- Increase SNB
- Decrease ANB
- Decrease SN-MP
- Decrease FMA

# CMF Sample Question

## Question 2

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, final photo montage, final intraoral photographs, final lateral cephalogram, final cephalometric tracing, and the pre- /post-treatment skeletal analysis (see example below).

	PRE TX A	PROG A1	POST TX B	DIFF.  A-B
SNA°	81.0		81.0	0.0
SNB°	72.0		70.0	-2.0
ANB°	9.0		11.0	2.0
SN-MP°**	48.0		50.0	2.0
FMA°	39.0		41.0	2.0

# CMF Sample Question

## Question 2

### Classification

Domain 4: Critical Analysis and Outcomes Assessment

### Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

### Prompt

Describe the skeletal changes and your rationale for what occurred. Please respond in numbered list format below.

### Model Responses

The board expects a fully proficient response for this question to include:

- Decrease in SNB due to inadequate vertical control
- Increase in ANB due to inadequate vertical control
- Increase SN-MP due to inadequate vertical control
- Increase in FMA due to inadequate vertical control

# CMF Sample Question

## Question 3

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, and the pre-treatment dental analysis (see example below).

	PRE TX A
<u>1</u> TO NA mm	9.0
<u>1</u> TO SN°	111.0
- <u>1</u> TO NB mm	16.0
- <u>1</u> TO MP°	107.0

# CMF Sample Question

## Question 3

### Classification

Domain 2: Treatment Objectives and Planning

### Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

### Prompt

Identify appropriate dental treatment objectives for the variables in the case management table. Please respond in numbered list format below.

### Model Responses

The board expects a fully proficient response for this question to include:

- Retract maxillary incisors to NA
- Retract mandibular incisors to NB
- Decrease mandibular incisor proclination to MP
- Decrease maxillary incisor proclination to SN

# CMF Sample Question

## Question 4

- The examinee will have access to the following records: Initial photo montage, initial intraoral photographs, initial lateral cephalogram, initial cephalometric tracing, final photo montage, final intraoral photographs, final lateral cephalogram, final cephalometric tracing, and the pre- /post-treatment dental analysis (see example below).

	PRE TX A	PROG A1	POST TX B	DIFF.  A-B
<u>1</u> TO NA mm	9.0		-2.0	11.0
<u>1</u> TO SN°	111.0		77.0	34.0
<sup>-</sup> <u>1</u> TO NB mm	16.0		9.0	7.0
<sup>-</sup> <u>1</u> TO MP°	107.0		97.0	10.0

# CMF Sample Question

## Question 4

### Classification

Domain 4: Critical Analysis and Outcomes Assessment

### Opening Scenario

A 16-year, 2-month-old female presents with the chief complaint that “My teeth stick out.”

### Prompt

Describe the changes in the maxillary and mandibular incisor position observed in this case. Please respond in numbered list format below.

### Model Responses

The board expects a fully proficient response for this question to include:

- Excessive retraction of maxillary incisors
- Lack of torque control in maxillary incisors
- Retraction of mandibular incisors
- Adequate torque control of mandibular incisors