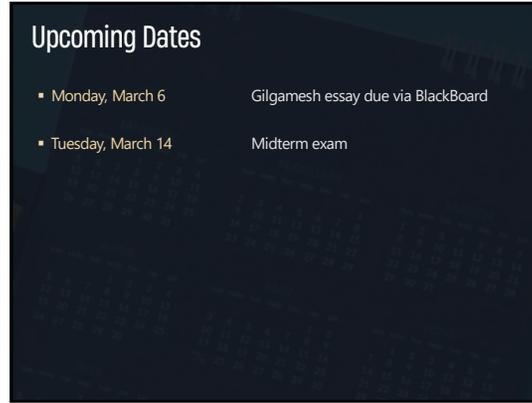
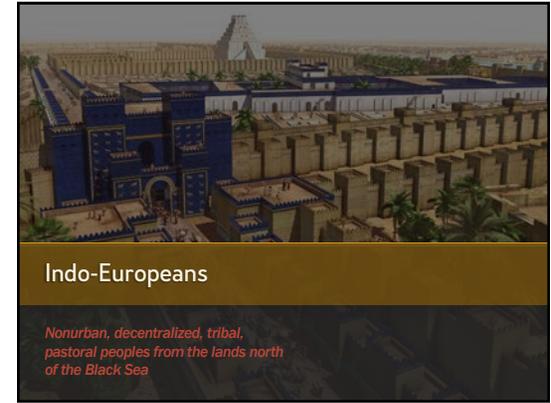


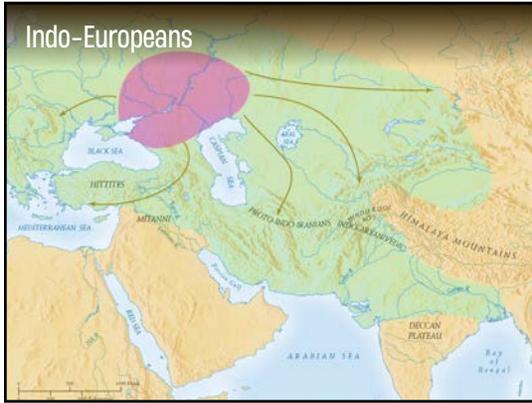
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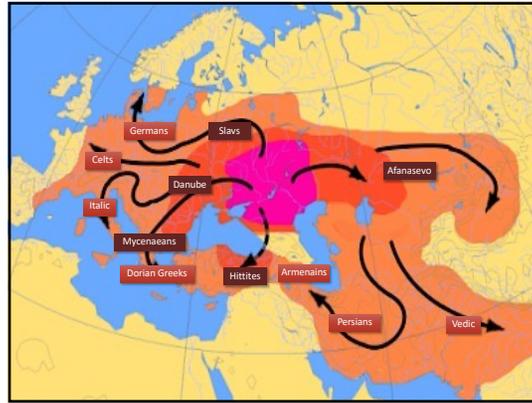
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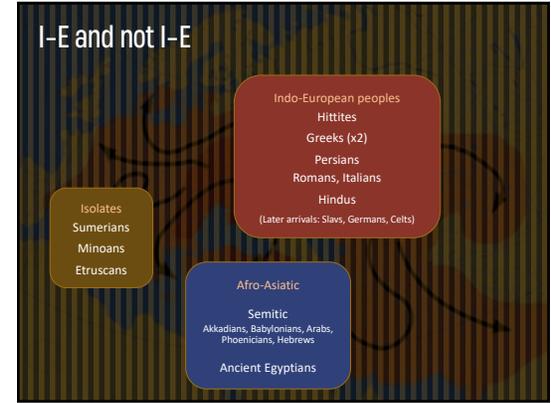
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5



6

Proto-Indo-European Roots for Words Referring to Parts of a Wagon		
PIE Root Word	Wagon Part	Daughter Languages
*k ^w ek ^w los	(wheel)	<i>Old Norse</i> hvel 'wheel'; <i>Old English</i> hweohl 'wheel'; <i>Middle Dutch</i> wiel 'wheel'; <i>Avestan</i> Iranian xaxra- 'wheel'; <i>Old Indic</i> cakri 'wheel, Sun disc'; <i>Greek</i> kuklos 'circle' and kuklia (plural) 'wheels'; <i>Tocharian A</i> kokal 'wagon'; <i>Tocharian B</i> kokale 'wagon'
*rot ^w -ch ^w	(wheel)	<i>Old Irish</i> roth 'wheel'; <i>Wish</i> rhot 'wheel'; <i>Latin</i> rota 'wheel'; <i>Old High German</i> rad 'wheel'; <i>Lithuanian</i> ratas 'wheel'; <i>Latvian</i> rats 'wheel' and rats (plural) 'wagon'; <i>Albanian</i> rreth 'ring, hoop, carriage tire'; <i>Avestan</i> Iranian ratha 'chariot, wagon'; <i>Old Indic</i> ratha 'chariot, wagon'
*ak ^w -s ^w -or	(axle)	<i>Latin</i> axis 'axle, axis'; <i>Old English</i> eac 'axle'; <i>Old High German</i> āhs 'axle'; <i>Old Prussian</i> asis 'axle'; <i>Lithuanian</i> ašis 'axle'; <i>Old Church Slavonic</i> os 'axle'; <i>Myersan</i> Greek a-ko-so-ne 'axle'; <i>Old Indic</i> ślo's 'axle'
*weǵh ^w er ^w -	(ride)	<i>Wish</i> amwain 'drive about'; <i>Latin</i> vehō 'bear, convey'; <i>Old Norse</i> veiga 'bring, move'; <i>Old High German</i> wegan 'move, weigh'; <i>Lithuanian</i> vežti 'drive'; <i>Old Church Slavonic</i> voziti 'drive'; <i>Avestan</i> Iranian vaxaiti 'transport, guide'; <i>Old Indic</i> vilāsi 'transport, carries, convey'. Derivative nouns have the meaning 'wagon' in <i>Greek</i> , <i>Old Irish</i> , <i>Wish</i> , <i>Old High German</i> , and <i>Old Norse</i> .

7



8

Wheeled vehicles

- Engineering difficulties
 - Axle: tightness of fit, width
 - Draft (weight including drag): rigid draft pole, rigid yoke
 - Two wheels vs. four: four wheels add draft

9



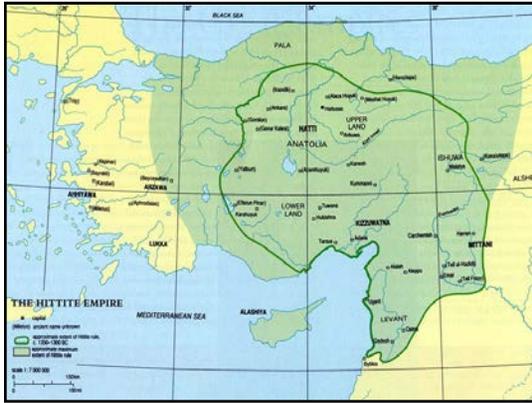
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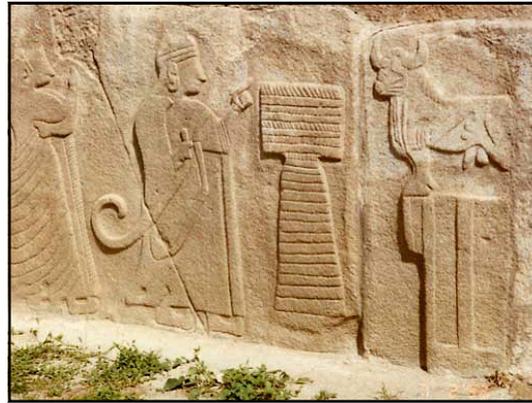
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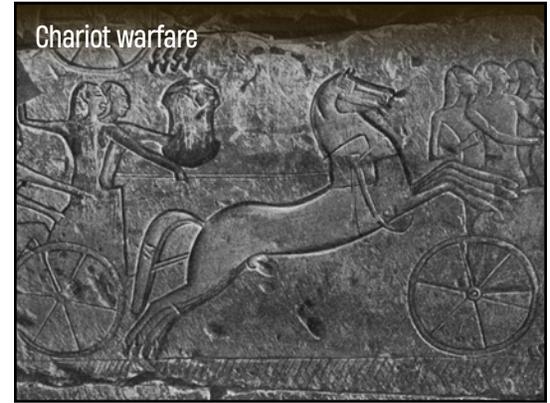
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13



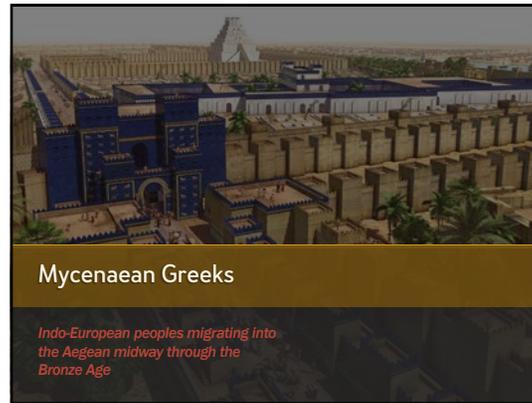
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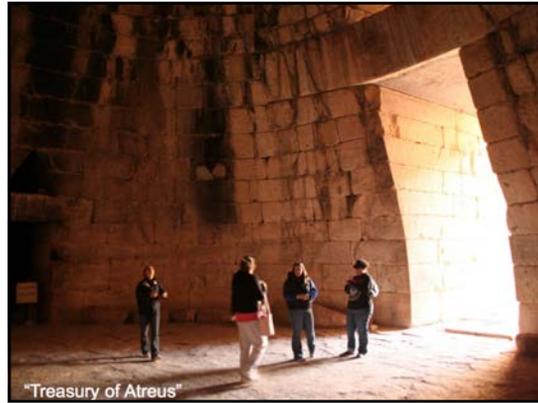


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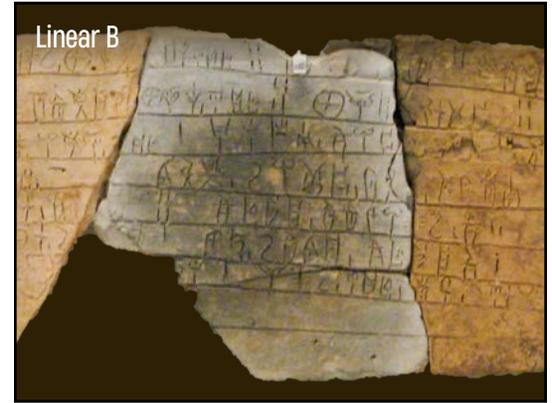
Pylos throne room (reconstruction)

22



"Treasury of Atreus"

23



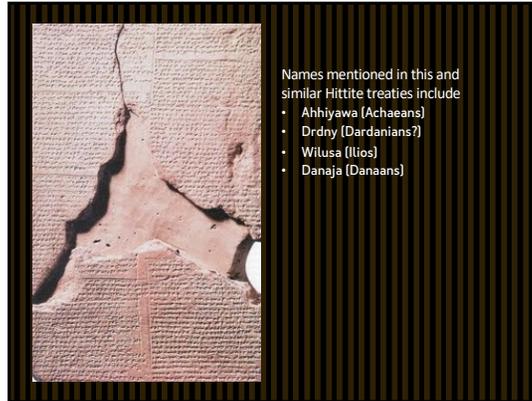
Linear B

24



Michael Ventris

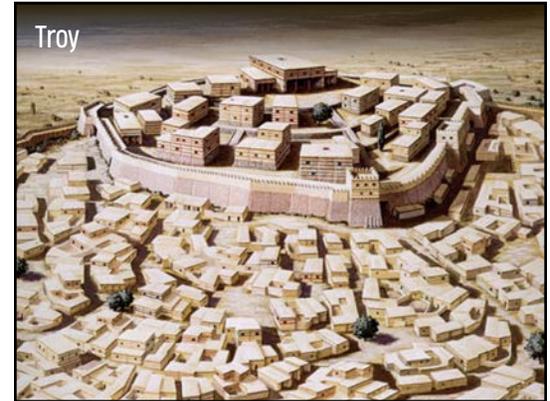
25



Names mentioned in this and similar Hittite treaties include

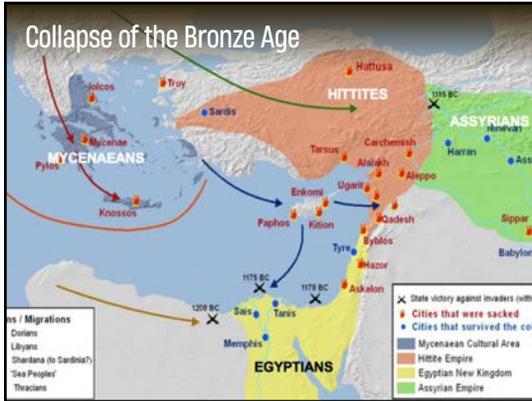
- Ahhiyawa (Achaeans)
- Drdny (Dardanians?)
- Wilusa (Ilios)
- Danaja (Danaans)

26

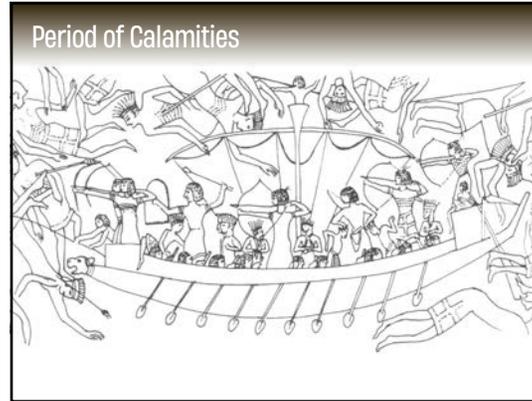


Troy

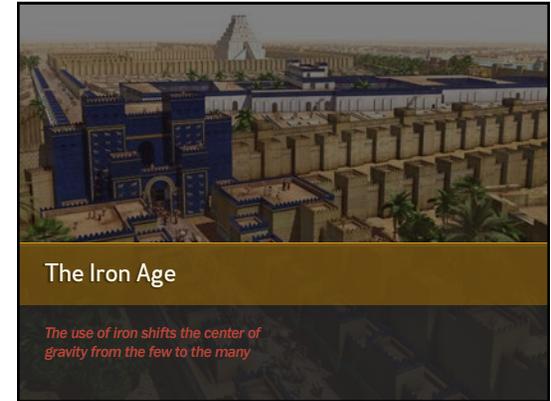
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28



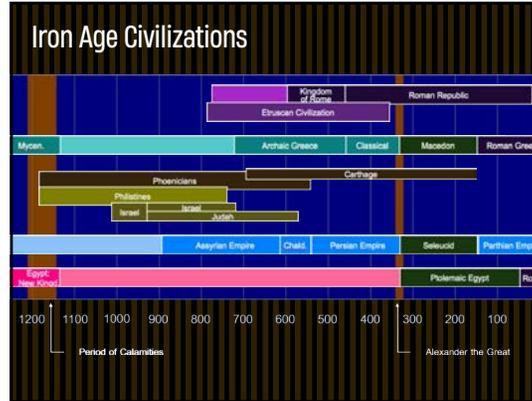
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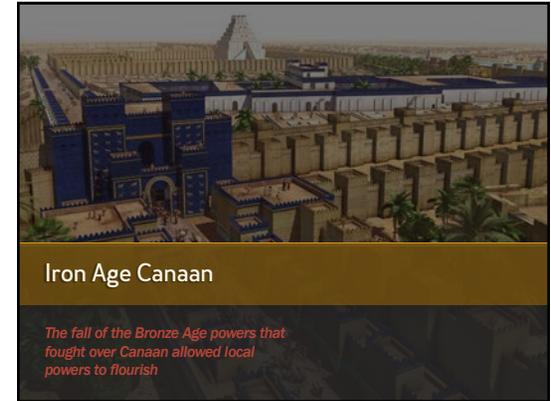
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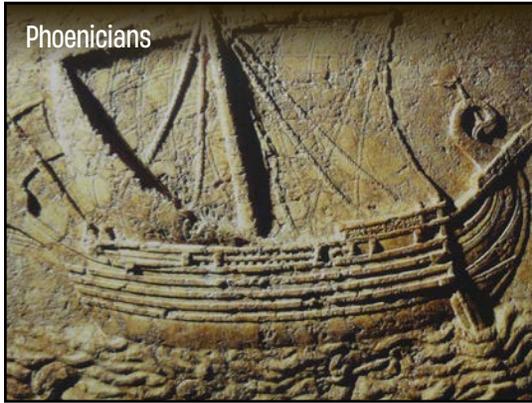
Iron Age peoples in Canaan

- Indo-Europeans (migrants from the Aegean)
 - Philistines
- Semitic Peoples
 - Aramaeans
 - Phoenicians
 - Israelites
 - Exodus from Egypt 1250
 - Struggle for Canaan 1200-1000
 - Kingdom of Israel 1020-722

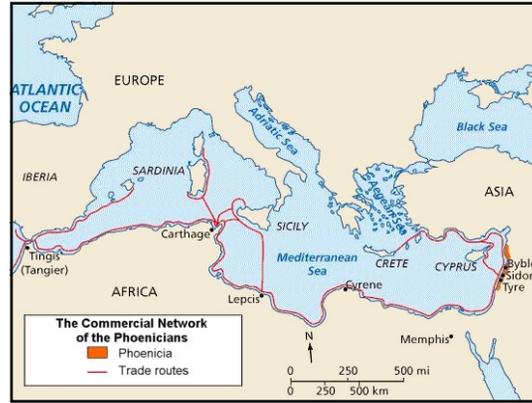
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38



39

Ancient Languages and writing systems

Pictographic	Syllabic	Phonetic
<p>QUENEFORM - SOWER</p> <p>QUENEFORM - HITTITE</p> <p>QUENEFORM - IRON AGE ASSYRIA</p> <p>QUENEFORM - IRON AGE PERSIA</p> <p>HEROGLYPHS - EGYPT</p>	<p>LINEAR A - CRETAE</p> <p>LINEAR B - MYCENAE</p>	<p>PHOENICIAN</p> <p>GREEK</p> <p>ETRUSCAN</p> <p>LATIN</p>

40

Z Zayin Weapon	Y Waw Hook	Ξ He Window	Δ Daleth Door	Γ Gimel Camel	Β Beth House	Α Aleph Ox
Ν Nun Fish	Μ Mem Water	Λ Lamedh Ox-Goad	Κ Kaph Palm of Hand	Υ Yodh Hand	Τ Teth Unknown	Η Heth Fence
ⴐ Taw Mark	ⴑ Shin Tooth	ⴒ Resh Head	ⴓ Qoph Monkey	ⴔ Sadhe Fishhook	ⴕ Peh Mouth	ⴖ Ayin Eye
						ⴗ Samekh Support

41

Evolution of the Alphabet

Phoenician (c. 1100 BCE)

Archaic Greek (c. 750 BCE)

Archaic Latin (c. 500 BCE)

Modern Latin script (c. 1000 CE)

42

Today Descended from the Phoenician alphabet

LATIN ALPHABET - ROMAN
Those who do not remember the past are condemned to repeat it.

LATIN ALPHABET - GERMAN
Wer sich nicht an die Vergangenheit erinnert, ist dazu verdammt, sie zu wiederholen.

LATIN ALPHABET - FRENCH
Ceux qui ne se souviennent pas du passé sont condamnés à le répéter.

GREEK ALPHABET - GREEK
Ὅσοι δὲν θυροῦνται τὸ παρελθὸν εἶναι καταδικασμένοι νὰ τὸ επαναλάβουν.

CYRILLIC ALPHABET - RUSSIAN
Те, кто не помнит прошлого, обречены на его повторение.

DEVANAGARI ALPHABET - HINDI
Ti, who ne pam'atgas minulogo, pricheni povtorivat' yego.

ARABIC ALPHABET - ARABIC
اولئك الذين لا يتكفرون الماضي محكوم عليهم بتكراره.

ARABIC ALPHABET - PERSIAN
کسانی که گذشته را به یاد نمی آورند محکوم به تکرار آن هستند.

HEBREW ALPHABET - HEBREW
מי שלא זוכר את העבר כדון לחזור עליו.

HEBREW ALPHABET - HEBREW
די וואס געדענקן נישט די פאראנגעהייס ווערן פארשפט צו איבערלעבן.

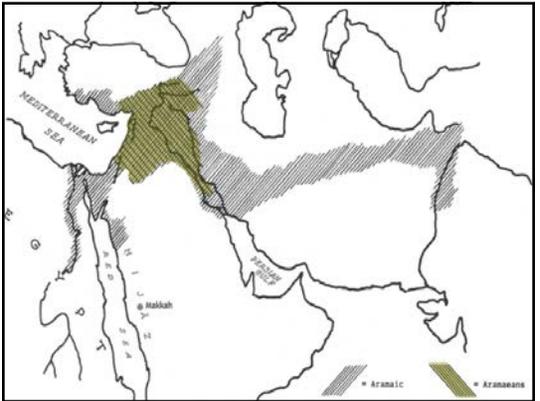
HINDI ALPHABET - HINDI
जो लोग अतीत को याद नहीं रखते वे इसे दोहराने के लिए अभिशप्त हैं।

TAMIL ALPHABET - TAMIL
கடந்த காலத்தை நினைவில் கொண்டவர்கள் அதை மீண்டும் செய்வது கண்டிக்கப்படுகிறது.

43



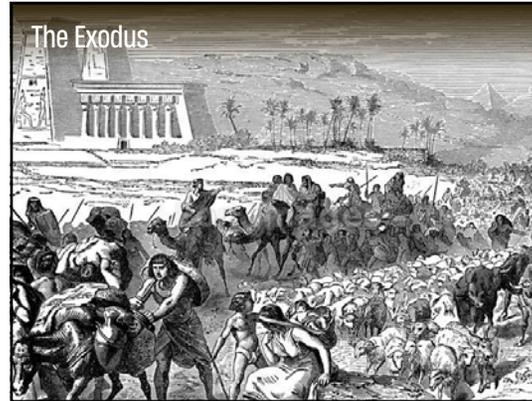
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46



47



48

Expansion of the Kingdom of Israel



49



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