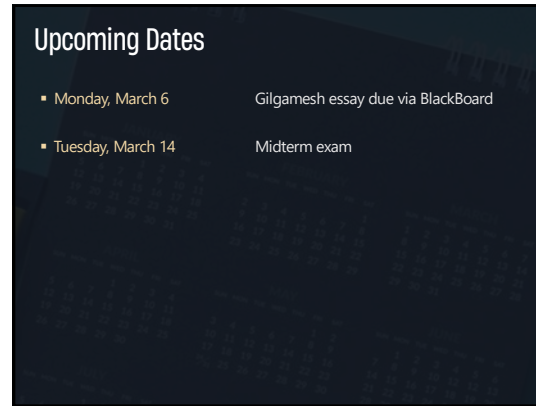
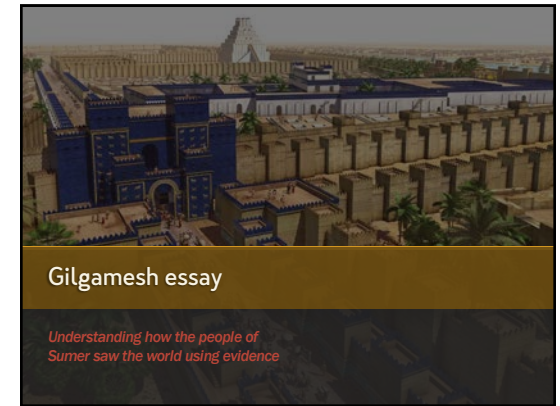




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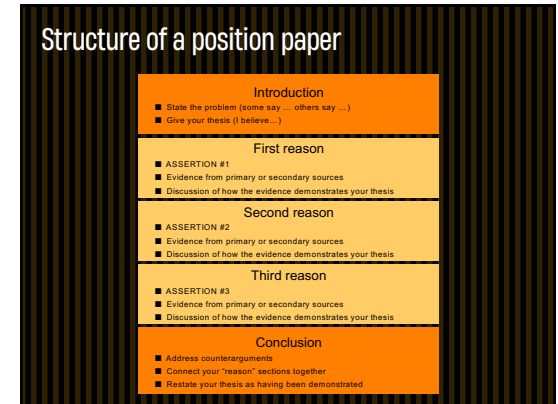
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Citations

A List in your bibliography all books and articles you used to support your assertions.

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1Smith 2007, 34.
 2Smith 2007, 106.
 3Zimmermann 2009, 56.

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Smith, John. 2007. *This Is the Title of the Book*. New York: Important Books Press.
 Thayer, Charles C. 1999. *Abingdon, Virginia and History*. Seattle, WA: Small Town Press.
 Thayer, Charles C. 2003. *More Abingdon Stories*. Seattle, WA: Small Town Press.
 Zimmermann, Fred. 2009. *Did You Hear the One About the Walrus?* Chicago: Nunc Press.

B Cite in your footnotes all information from your sources, whether it's quoted, paraphrased, or just mentioned as an idea.
C Each citation points to an entry in your bibliography and adds a page number.

7



The Aegean world

Civilization thrives in the Aegean long before the Greeks arrive from the north

8

The Aegean in the Bronze Age

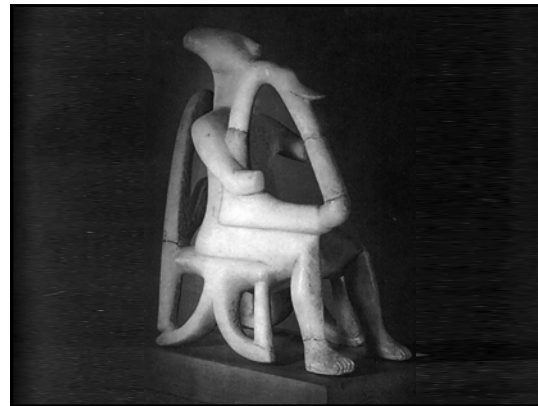


Anatolians
After 1800 BCE
 Mycenaeans
After 1600 BCE
 Cycladic
After 3000 BCE
 Minoans
After 2200 BCE

9



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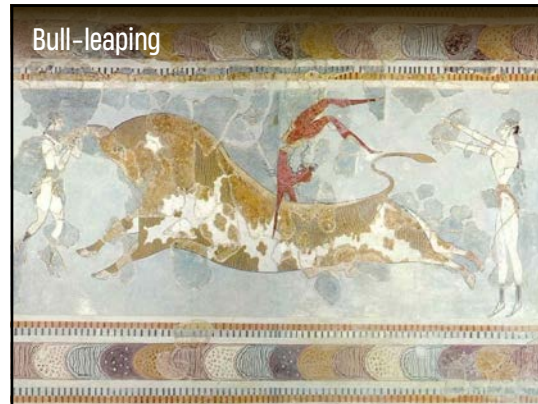
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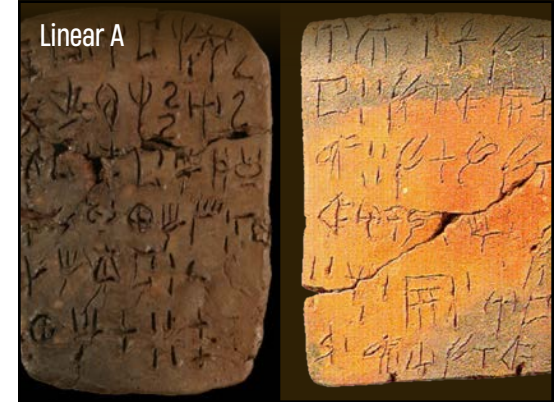
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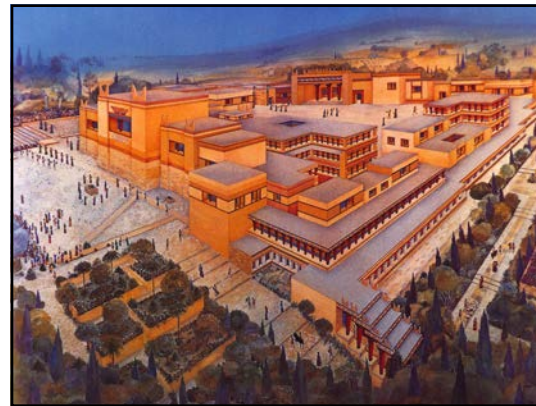
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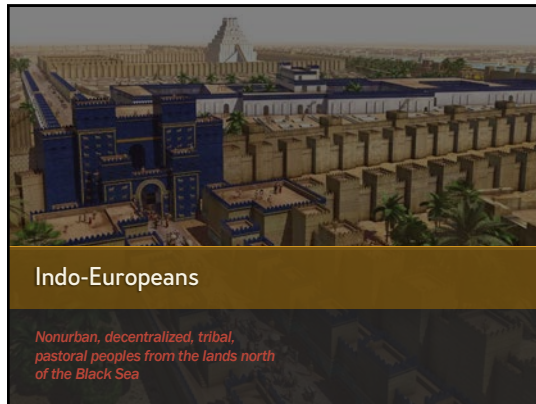
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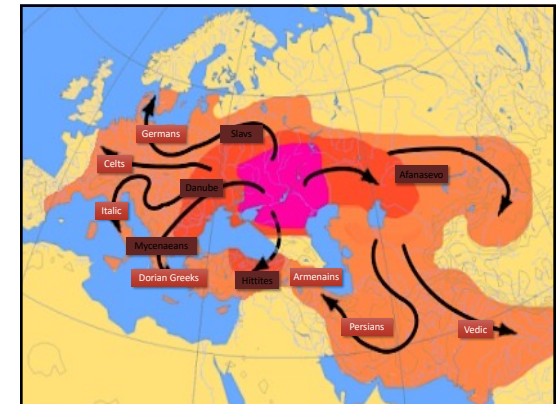
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26



27

I-E and not I-E

Isolates

Sumerians

Minoans

Etruscans

Indo-European peoples

Hittites

Greeks (two waves)

Persians

Romans; Italians

Hindus

(Later arrivals: Slavs, Germans, Celts)

Other Language Groups

Afro-Asiatic

- Semitic; Akkadians, Babylonians, Arabs, Phoenicians, Hebrews
- Ancient Egyptians

28

Proto-Indo-European Roots for Words Referring to Parts of a Wagon

PIE Root Word	Wagon Part	Daughter Languages
*k ^w ek ¹ los	(wheel)	<i>Old Norse</i> hvel 'wheel'; <i>Old English</i> hweohl 'wheel'; <i>Middle Dutch</i> wiel 'wheel'; <i>Avestan</i> Iranian caxtra- 'wheel'; <i>Old Indic</i> cakra 'wheel, Sun disc'; <i>Greek</i> kuklos 'circle' and kukla (plural) 'wheels'; <i>Tocharian A</i> kukal 'wagon'; <i>Tocharian B</i> kokale 'wagon'
*rot ² -ch ³ -	(wheel)	<i>Old Irish</i> roth 'wheel'; <i>Wish</i> rhod 'wheel'; <i>Latin</i> rota 'wheel'; <i>Old High German</i> rad 'wheel'; <i>Lithuanian</i> ratas 'wheel'; <i>Latvian</i> rats 'wheel' and rat (plural) 'wagons'; <i>Albanian</i> rreth 'ring, hoop, carriage tire'; <i>Avestan</i> Iranian ratha 'chariot, wagon'; <i>Old Indic</i> ratha 'chariot, wagon'
*ak ⁴ -s ⁵ , or	(axle)	<i>Latin</i> axis 'axle, axle'; <i>Old English</i> eox 'axle'; <i>Old High German</i> h ⁴ ek ⁵ - alsa 'axle'; <i>Old Prussian</i> asia 'axle'; <i>Lithuanian</i> ašis 'axle'; <i>Old Church Slavonic</i> osl 'axle'; <i>Myrmacan Greek</i> a-ko-so-to 'axle'; <i>Old Indic</i> iha 'axle'
*wēgher ⁶ -	(ride)	<i>Wish</i> amwain 'drive about'; <i>Latin</i> veho 'beast, convey'; <i>Old Norse</i> vega 'bring, move'; <i>Old High German</i> wegon 'move, weigh'; <i>Lithuanian</i> veža 'drive'; <i>Old Church Slavonic</i> vезъ 'drive'; <i>Avestan</i> Iranian vaxaiti 'transport, loads'; <i>Old Indic</i> vahan '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> .

29

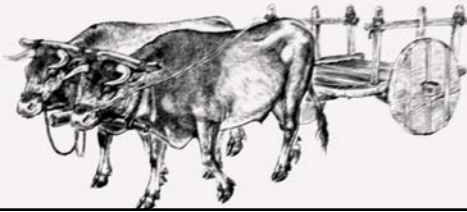


3500 BCE
Bronocice, Poland

30

Wheeled vehicles

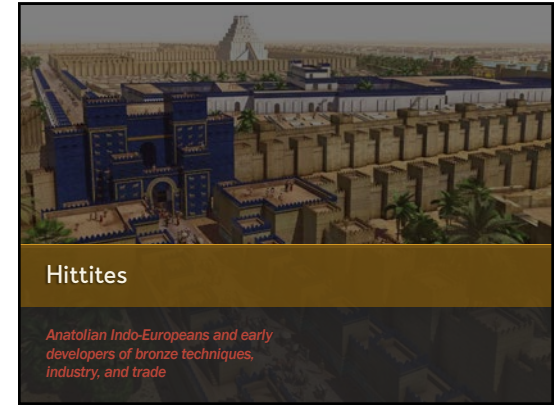
- Engineering difficulties
 - Axle tightness of fit, width
 - Draft (weight including drag) rigid draft pole, rigid yoke
 - Two wheels vs. four four wheels add draft



31



32



Hittites

*Anatolian Indo-Europeans and early
developers of bronze techniques,
industry, and trade*

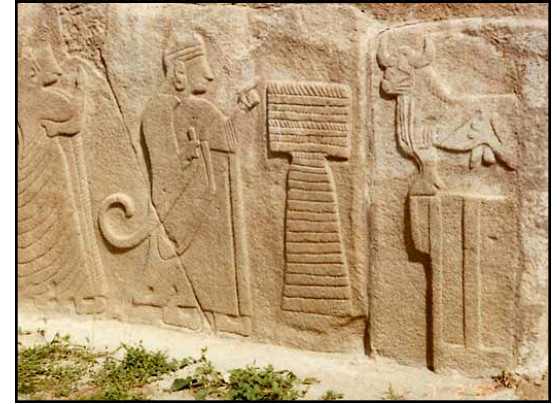
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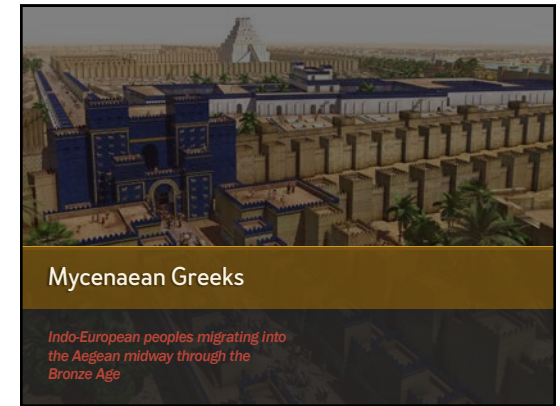
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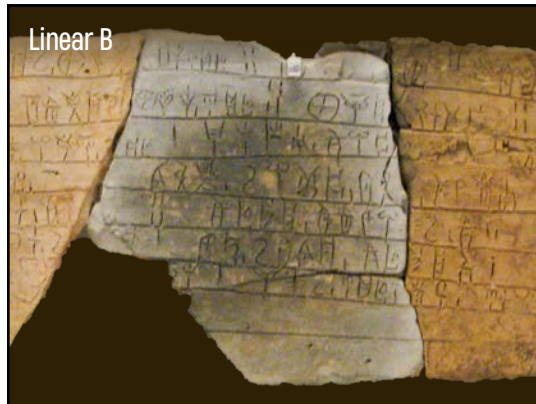
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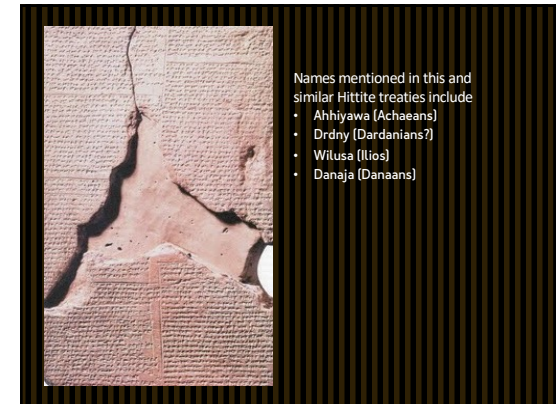
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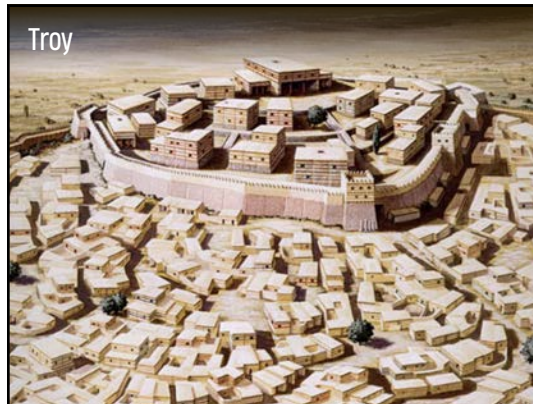
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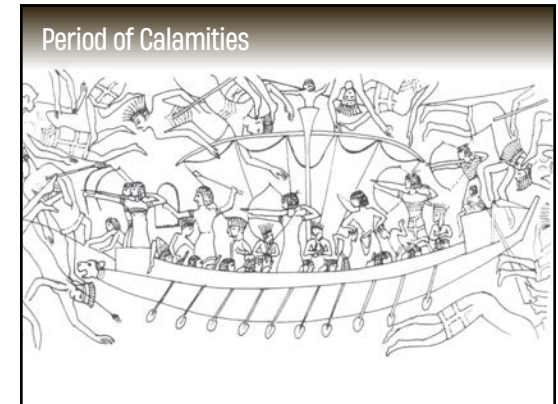
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