

Unit I-15 Printables

Ancient North American Homes

Ancient North America Timeline

Ancient American Peoples Map

Who built the Wisconsin Mounds News Article

Native Dancers Photos

North America Political Map

North America Physical Map

New York Skyline

Mexico Map

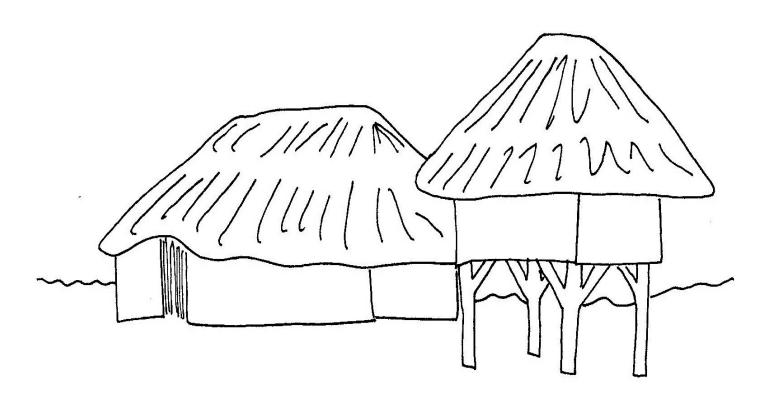
Periodic Table of the Elements

Half-Life Equations

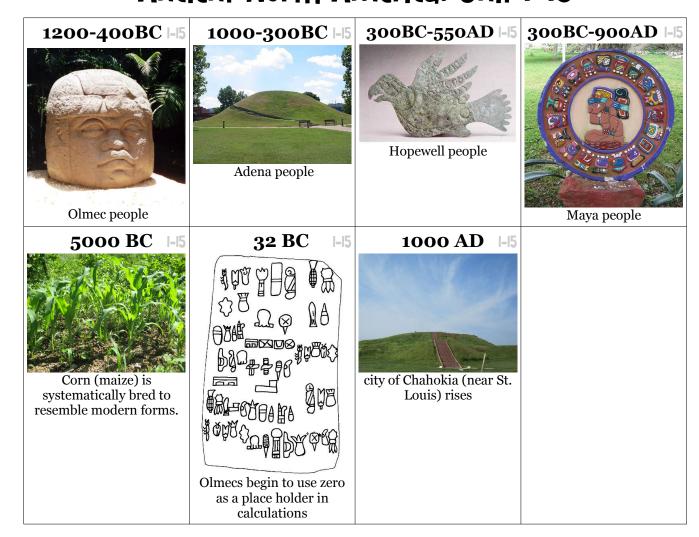
Michelle Copher & Karen Loutzenhiser

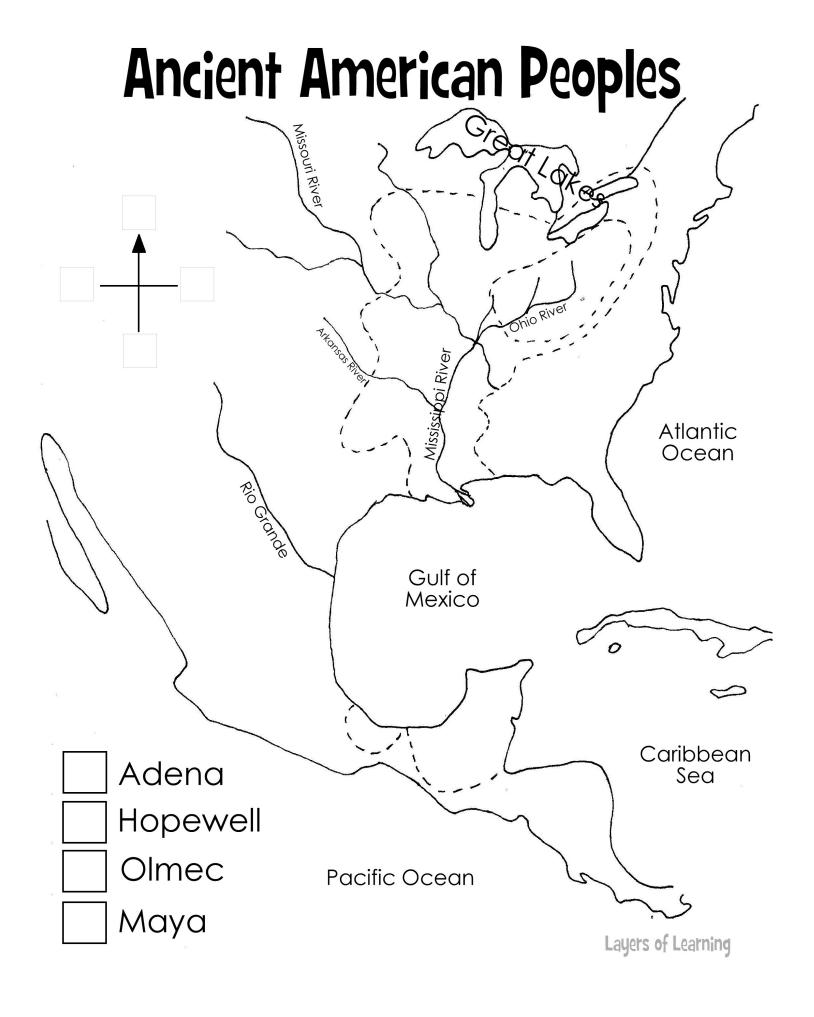
Ancient North American Homes

These are buildings from North American cultures of the Ohio Valley. The walls are built of posts and covered with mud, similar to wattle and daub houses of ancient Europe. The roofs are thatch. The little building is on stilts to keep it out of the water and away from critters. It is where the people who live in the house store their harvest of maize and other crops.



Ancient North America: Unit I-I5





Who built the mounds of Wiscon- there are plenty that mark the outperplexing thing about the problem line is so perfect that he cannot misworks of Wisconsin, different from soil is two and a half feet, is whether the builders here were the There is a most far heaps of earth in some of their ceremonials. But they claimed to know nothing of their building nor of with the curious earth strange individuality in the earthhas been a more intricate one than it world was structures in Ohio and other older originators of the work, or did they attempt to copy the stuctures of dians found here by the first whites of the mounds, although we read occasionally of their using the circusin? From the advent of the whites the problem of the mound builders The Inwere ignorant of the origin or purpose those of other parts, and the other aboriginal peoples? was when the scientific sections of the country. heir builders, wrestling

Of the round mole hills, called tumulus; in imitation of birds and animals, called attempt to work the land. Many are these mounds were constructed and in mounds, and long horizontal woods and has not been leveled in an not more than two or three feet in ŏ Probably the tumuli are the One of the largest in this ures 63 feet in diameter across the base and is now 13 feet in height at This stands in the those that were found by early settlers are entirely obliterated by years The most common forms in which which the whites found them are,most numerous, and these are in all vicinity is about four miles southwest of Prairie du Sac, which measheight, and a large percentage summit. he F808

7 3

lines of the lizard, deer, bear and other animals so plainly that nobody can mistake the intent of the artists Some of the bird mounds are especially attractive to the one shown here having a stretch of wing clearly marked of 396 feet. Many are who shaped them. look upon.

take it. Many of them are much smaller. One of the The body has a width of 14 feet and the elevation above the surrounding stands upon the body the whole out on the shores of Devil's lake at Kirkland. Alhough in front of the old hotel where thousands have tramped over it for years, the lines are yet perfect. It has a stretch of about 110 feet from specimens near Madison is tip to tip.

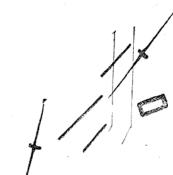
There is up in Sauk northeast of Baraboo, a man mound that has attracted visitors from mounds is the most perfect. It has an extreme length of legs and feet perfectly outlined and is capped with a headdress that has the general look of feathers. This is on land not cultivated, and is in a good state preservation, except that the legs have been cut in two by the all over this country 290 feet, with arms, four known, this and Europe. man county. Man Mound.

effigy mounds those in the form of located in a row not more than a birds are most numerous, although In many places they are in groups,

public road.

A Symmetrical Bird Mound.

quarter of a mile in length. The quar- good state of preservation although there are many scientists are Baraboo cuts through this group, a fragment of which is shown below: consin river near Kilbourn. The old ter part of these are of the tumulus group is on the west side of the Wisstage road between Kilbourn and and parallelograms. effigies



An Interesting Group.

three ridges, a tumulus and what was the upper bird mound being nearly 400 feet in length. Here is shown two bird mounds, probably the wall for a dwelling. All are greatly reduced,

There are many mounds about lakes tematic effort has been made to sur-Two or three are on the university grounds and on the hills beyond are many In Sauk county the historithorough survey of the aboriginal earthworks in that section and has covered seven townships of the county. In these were located 734 mounds, one-half of which are in a no sysvey, plat and preserve them, Mendota and Monona, but has been cal society more.

lated. No sucn trustile for could have as we have knowledge of could have have them. In about every instance them. these earthworks were much larger this section was once densely popustructed was carried—it is different from the soil on which the mounds tumulus was made came at least 40 rods; there is no soil like that in the Of course when built, and their present size is no mark of the labor required to build thawing, rain and sunshine have reduced them more than half. With the crude appliances of the aborigines must have required an army of people tion remains unsolved, who built the which This these mounds is that they prove that the earth from which they were con-The earth from which a large Centuries of freezing and agreed relative for digging and carrying the earth, About the only point on mound nearer than that. a long time to build them. Wisconsin mounds? hem.

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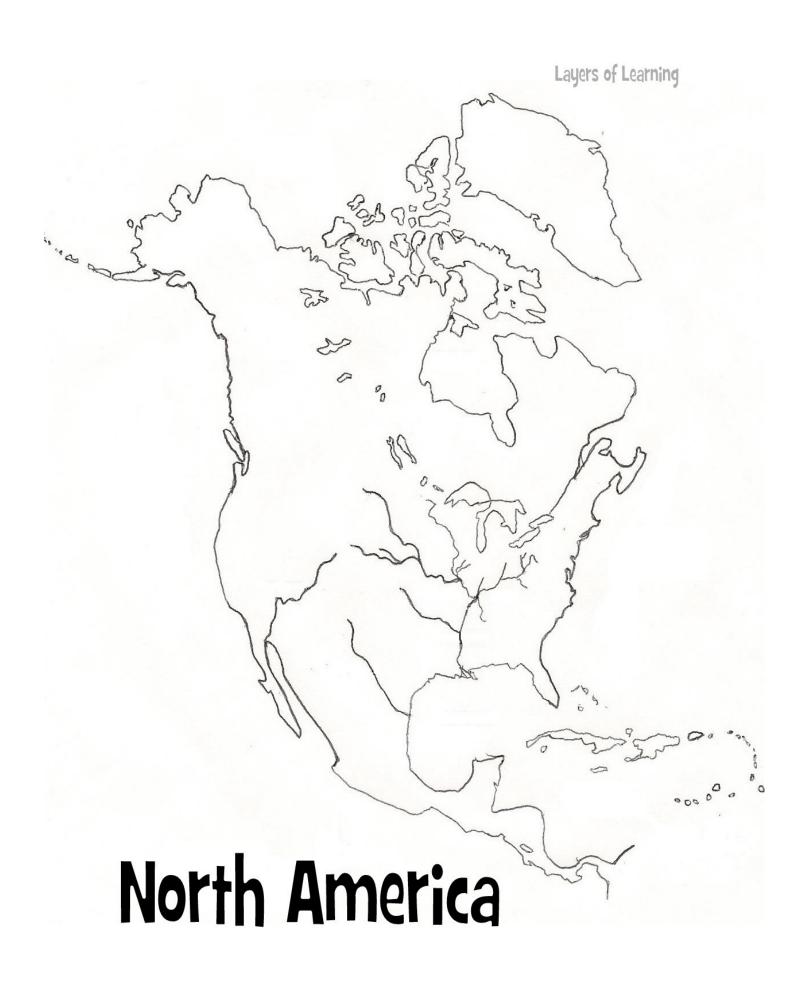
MADISON



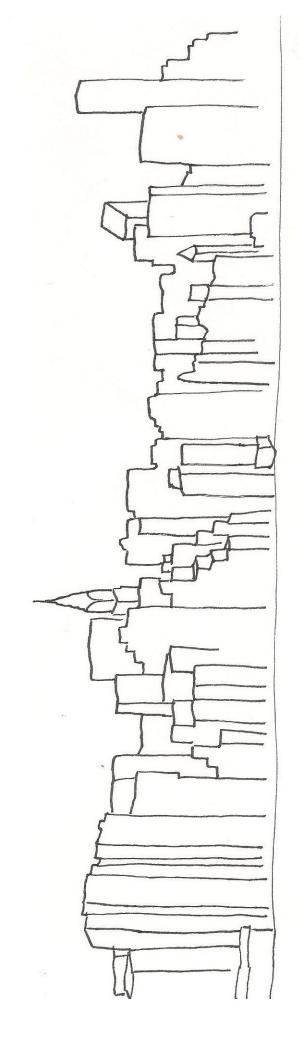
Photograph by Thelmadatter and shared on Wikimedia commons.

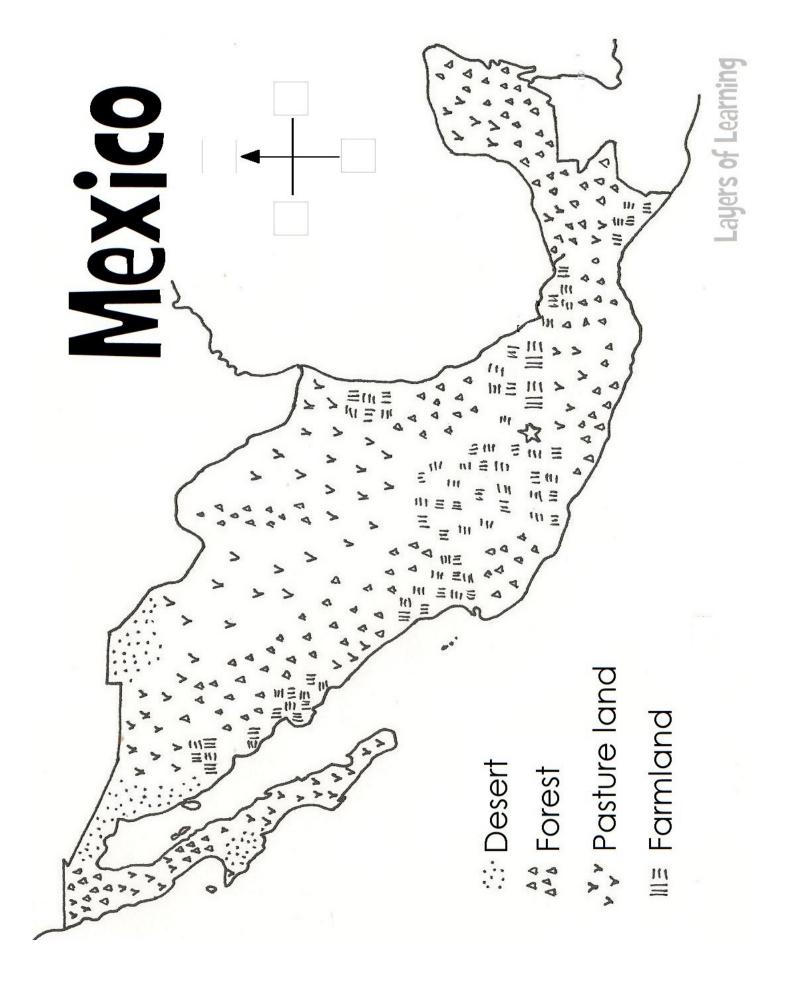






NEW YORK CITY SKYLINE





Nencium Layers of Learning

Z THEILUR 2	<u>Σ</u>	Argon 40.0	36 Krypton 83.8	54 Xenon 131.3	86 Radon 222.0	118 UUO Ununoctium
_ _ <u>*</u>	Pluorine N N N N N N N N N N N N N N N N N N N	Chlorine A 35.5	35 Br Kn 8 79.9	53	85 Astatine R. 211	117 Ununsepiium Unu
		Sulfur Ch 32.1	34 Selenium Brg 79.0	52 Fellum 100	Polonium Ast	116 V Unur
4.0			~			
=	Mitrogen 7	Phosphorus 31.0	Arse 74.	50 51	Sism Bism 200	4 115 UDD UND UND 288
6	Carbo 12.0	Silicon 28.1	Germa 72.	S _{IIB}	8 <u>C</u> 207.2	Fleroviu 289
lements	B Boron 10.8	Aluminum 27.0	31 G Gallium 68.7	49	81 Thallium 204.4	$\bigcup_{\text{Ununtrium}\atop 284}$
Ĕ			$\sum_{\substack{Zinc \\ 65.4}}^{30}$	48 Cadmium Cadmium 112.4	H 80, weredity	$\bigcup_{\text{Copernicium}}^{112}$
he			$\bigcup_{\substack{\text{Copper}\\\text{6.3.5}}}^{29}$	47 QSINGS 107.9	$\bigwedge_{\substack{Gold\\197.0}}^{79}$	Roentgemum
=			28 Nickel 58.7	Palladium	78 P† Platinum 195.1	DS Darmstadtium 281
0			27 Cobalf 58.9		77 ridium 192.2	109 Meitnerium 276
Þle			FG 26	Ruthenium	76 Osmium 190.2	108 Hassium 270
Ta			25, Manganese 54.9	$\overline{\Gamma}_{\text{Pechipetium}}^{43}$	Renium 186.2	Bhrium Bohrium 272
. <u>.</u>			Chromium N 52.0	42 Molybdenum	74. Tungsten 183.9	Seaborgium
Po			$\sqrt{\frac{23}{\sum_{50.9}^{\text{Vanadium}}}}$	Niobium 1	T 2 Tantalum 180.9	105 Dubnium 268
Periodic			22 Titanium 1	$\sum_{\text{Zirconium}\atop 91.2} 40$	72 Hafnium 178.5	Pf Rutherfordium 267
			$\sum_{\substack{\text{Scandium}\\45.0}}^{21}$	39 Yffrium 88.9	Lanthinides 57-71	Actinides 89-103
	Beryllium Pool	Magnesium 24.3	CO Calcium S	38 Srontium Strontium 87.6	B C Label 137.3	R adium 226.0
Hydrogen 1.0		Sodium Sodium	Potassium 39.1	Rubidium (55 Cesium 132.9	87 Fr Francium 223.0

	Lay
Z1 Lutetium 175.0	103
YHerbium 173.0	102 Nobelium 254
49 Thullum 168.9	101 Mendelevium
68 Ferbium 167:3	100 Fermium 100
67 Holmium 164.0	99 Einsteinium 254
66 Dysprostom 162.5	98 Californium
65 Terbium 158.9	97 Berkelium 247
64 Gadolinium 157.3	96 Curium 247
63 Europium 152.0	95 Am Americium 243
62 Samarium 150.4	Plutonium
Promethium 145	P3 Neptuhium
Neodymium Prom	92 Uranium 238.0
Proseodymium 140.9	Protactinium 231.0
0.0 Cerium 58 140.1	9(Thoriun 232.0
57 Lanthanum 138.9	89 Actinium 227.0

Half-Life Equations

A half-life is the amount of time it takes for half of a sample of a radioactive element to decay.

Radon-222 has a half-life of 3.8 days. If you start with a 100g sample, how much is left after 15.2 days?

15.2 days x <u>1 half-life</u> = 4 half-lives 3.8 days

> 1 half-life = 50g 2 half-lives = 25g 3 half-lives = 12.5g 4 half-lives = **6.25g**

1. Carbon-14 has a half-life of 5730 years. If you start with a 100g sample, how much will be left after 11,460 years?

2. If 100g of gold-198 has a half-life of 2.696 days, how much will you have left after 8.088 days?

3. Radon-226 has a half-life of 1600 years. How long will it take for a 28g sample of Radon to decay to 3.5g?

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3 half lives =
$$3.5 \times 2 = 7 \times 2 = 14 \times 2 = 28$$

 $3 \times 1600 = 4800 \text{ years}$