Grade 4+

A Course of Study in

LATIN & GREEK WORD ROOTS

auto (self) + bio (life) + graphy (written) = autobiography
The story of one's life written by oneself

bios - life
biome
biology
biography
autobiography
biodegradable

Increase Vocabulary
Provide a Memory Aid
Improve Spelling & Word Attack Skills

Matthew Glavach, Ph.D.
Zoe Gillespie, B.S.
# STUDENT LESSONS, PART 1

<table>
<thead>
<tr>
<th>Word Roots</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>act (to do), anim (life, spirit)</td>
<td>1</td>
</tr>
<tr>
<td>aqu (water), hydr (water), art (skill)</td>
<td>3</td>
</tr>
<tr>
<td>aud (hear-listen), bi (two), bio (life)</td>
<td>6</td>
</tr>
<tr>
<td>cap-cept (take-receive), cent (hundred)</td>
<td>8</td>
</tr>
<tr>
<td>cert (certain-sure), chron (time)</td>
<td>10</td>
</tr>
<tr>
<td>circ-circum (around), con-com (with-together)</td>
<td>12</td>
</tr>
<tr>
<td>cycle (circle, wheel), dec (ten) dem/o (the people)</td>
<td>14</td>
</tr>
<tr>
<td>dict (speak-say), equ (equal-same), ex (out-from)</td>
<td>17</td>
</tr>
<tr>
<td>fin (finish-end-limit), flor (flower), graph (write-draw)</td>
<td>20</td>
</tr>
<tr>
<td>hosp (guest house), host (stranger-enemy)</td>
<td>23</td>
</tr>
<tr>
<td>logy-ology (study of-science of), medi (middle)</td>
<td>24</td>
</tr>
<tr>
<td>nov (new), nym-onym (name-word), omni-pan (all)</td>
<td>26</td>
</tr>
<tr>
<td>ped (foot-feet), pri-prim (first), tend-tens (stretch)</td>
<td>29</td>
</tr>
<tr>
<td>terr (land), tract (draw-pull), uni (one), vis-vid (see)</td>
<td>32</td>
</tr>
</tbody>
</table>

# PART 1, LESSON ANSWERS

<table>
<thead>
<tr>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
</tr>
</tbody>
</table>

# PART 2, LESSON TESTS

<table>
<thead>
<tr>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
</tr>
</tbody>
</table>

# PART 2, TEST ANSWERS

<table>
<thead>
<tr>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
</tr>
</tbody>
</table>

# PART 3, WORD SEARCH PUZZLES

<table>
<thead>
<tr>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>56</td>
</tr>
</tbody>
</table>

# PART 5, CONCENTRATION GAMEBOARDS

<table>
<thead>
<tr>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>81</td>
</tr>
</tbody>
</table>

# PART 5, READING AND MEANING

<table>
<thead>
<tr>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>87</td>
</tr>
</tbody>
</table>
INTRODUCTION

Latin and Greek Word Roots, Grade 4+ includes Latin and Greek word roots related to fourth grade and above. The program is used at higher levels and in different ways depending on student groups and ability levels.

Latin and Greek Word Roots, Grade 4+ includes 5 parts.

Part 1: Word Root Lessons
Part 2: Word Root Tests
Part 3: Word Root Search Activities
Part 4: Word Root Concentration Games
Part 5: Word Root Reading and Meaning

Latin and Greek Word Root Chart
While presenting the lessons display the word root chart related to the lessons in the classroom. There are four word charts. If possible, enlarge the charts. They are found following this introduction.

Part 1: Word Root Lessons
Thirty-five lessons present four word roots in each lesson. Lessons are organized in alphabetical order, except for the Greek root hydē which follows the Latin root aquē, both roots meaning water.

Before passing out lesson 1, page 1, present the lesson on the chalkboard. The presentation helps students see that consistent Latin and Greek word parts are clues to word meanings.
Write the following words on the chalkboard.

**act** - to do  **in** – not  **re** – again  **inter** - together, between

---

**inactive**
The word root *act* means *to do* something.
What does the word *inactive* mean?

The word root *in* often means *not*.
Yes, the word *inactive* means *not active, not doing anything*.

---

**react**
The word root *act* means *to do something*.
What does the word *react* mean?

The word root *re* means *again*

Yes, the word *react* means *to act or do again*. (It means that something we already know or do well we are doing again.) Present the following sentence.

She *reacted* to the good news with a smile. (She has smiled before; she is smiling *again*.)

---

**interact**
The word root *act* means *to do something*.
What does the word *interact* mean?

The word root *inter* means *together or between*

Yes, the word *interact* means *to do something together with others*.
Tell students that learning word roots helps them understand many words. Tell them that the meanings presented in these words are found in many other words.

**Latin**

<table>
<thead>
<tr>
<th>1</th>
<th><strong>act</strong> to do</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>act-</strong> to do something</td>
<td></td>
</tr>
<tr>
<td>• It was an act of bravery.</td>
<td></td>
</tr>
</tbody>
</table>

**inactive** (in- not)- not active; not doing anything
• Are most healthy people active or inactive?

**react** (re- again)- to act again; to respond to
• She reacted to the good news with a smile.

**interact** (inter- between)- to act together with others
• I like to do things with other people; I like to interact with them.

Pass out the first student lesson on page 1. Help students complete the lesson. In each lesson, students study word roots, write their definitions, and write them in sentences. The sentences on the lesson card have a dot in front of them. (For extra credit have students write their own sentences for each word.) Find the lesson answers at the end of the lessons.

**Part 2: Lesson Tests**
Give the tests on the same day as the lesson or on other days. Students review the words and meanings prior to the test. Answers to the tests are found following the tests in Part 3, Tests.

**Part 3: Word Search Puzzles**
Present word search puzzles after every three lessons. The puzzles are excellent reviews, and they motivate students. Answers to the puzzles follow each puzzle.
Part 4: Word Root Concentration
The word root concentration game is played like Concentration games. Students cut out word cards and turn them over. Then they match the cards. The student with the most cards wins the game.

Part 5: Word Root Reading and Meaning
Students practice reading the word roots and discuss their meanings. Time the students on their readings.

Drawing Masters
A drawing master is included for students to draw pictures about the word roots. Students enjoy drawing, and the drawings can be displayed in the classroom. The drawing master is in the Teacher Guide.
WORD ROOT
CHARTS
# Latin and Greek Word Root Chart 1

(LESSONS 1-8)

<table>
<thead>
<tr>
<th>Root</th>
<th>Example</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>act</strong> (to do)</td>
<td>act, inactive, react, interact</td>
<td>not, again, between</td>
</tr>
<tr>
<td><strong>anim</strong> (life, spirit)</td>
<td>animal, animate, inanimate, magnanimous</td>
<td>without, great</td>
</tr>
<tr>
<td><strong>aqu/a</strong> (water)</td>
<td>aquatic, aquarium, aqueduct, aquanaut</td>
<td>a place for, to lead, explorer</td>
</tr>
<tr>
<td><strong>hydr</strong> (water)</td>
<td>hydrant, hydroelectric, dehydrate, hydrophobia</td>
<td>remove, fear</td>
</tr>
<tr>
<td><strong>art</strong> (skill)</td>
<td>art, artist, artisan, artificial</td>
<td>one who, make</td>
</tr>
<tr>
<td><strong>aud</strong> (hear, listen)</td>
<td>audible, inaudible, audience, audition</td>
<td>able to, not able to</td>
</tr>
<tr>
<td><strong>bi</strong> (two)</td>
<td>bicycle, bilingual, bio (life), biology, biography</td>
<td>wheel, language, study, write</td>
</tr>
<tr>
<td><strong>cap, cept</strong> (take, receive)</td>
<td>capture, capable, accept, intercept</td>
<td>able to, between</td>
</tr>
<tr>
<td>Lesson</td>
<td>Latin/Greek Root</td>
<td>Example Words</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>9</td>
<td>cent (hundred)</td>
<td>century, centennial</td>
</tr>
<tr>
<td></td>
<td></td>
<td>bicentennial, percent</td>
</tr>
<tr>
<td>10</td>
<td>cert (certain, sure)</td>
<td>certain, uncertain, certify</td>
</tr>
<tr>
<td></td>
<td></td>
<td>make, certificate</td>
</tr>
<tr>
<td>11</td>
<td>chron (time)</td>
<td>chronic, chronology, synchronize</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chronometer, measure</td>
</tr>
<tr>
<td>12</td>
<td>circ, circum (around)</td>
<td>circle, circus, circumvent, circumnavigate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to go, sail</td>
</tr>
<tr>
<td>13</td>
<td>con, com (with, together)</td>
<td>connect, congregate, combine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>community, one</td>
</tr>
<tr>
<td>14</td>
<td>cycl (circle, wheel)</td>
<td>cycle, recycle, bicycle</td>
</tr>
<tr>
<td></td>
<td></td>
<td>again, two, cyclone</td>
</tr>
<tr>
<td>15</td>
<td>dec (ten)</td>
<td>decade, decathlon, decimal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>decapod, foot</td>
</tr>
<tr>
<td>16</td>
<td>dem/o (the people)</td>
<td>democracy, democratic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>government, government, epidemic, pandemic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>among, all</td>
</tr>
</tbody>
</table>
## Latin and Greek Word Root Chart 3
(LESSONS 17-25)

<table>
<thead>
<tr>
<th>Lesson</th>
<th>Root</th>
<th>Word</th>
<th>Word</th>
<th>Word</th>
<th>Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.</td>
<td><strong>dict</strong> (speak, say)</td>
<td>dictate</td>
<td>dictator</td>
<td><strong>predict</strong></td>
<td><strong>contradict</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>one who</td>
<td>before</td>
<td>against</td>
</tr>
<tr>
<td>18.</td>
<td><strong>equ</strong> (equal, same)</td>
<td><strong>unequal</strong></td>
<td>equal</td>
<td>equality</td>
<td><strong>equilateral</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>not</td>
<td></td>
<td>side</td>
</tr>
<tr>
<td>19.</td>
<td><strong>ex</strong> (exit)</td>
<td>exit</td>
<td>expel</td>
<td>extend</td>
<td>exclaim</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>drive</td>
<td>stretch</td>
<td>cry out</td>
</tr>
<tr>
<td>20.</td>
<td><strong>fin</strong> (finish, end, limit)</td>
<td><strong>finish</strong></td>
<td>infinite</td>
<td>define</td>
<td><strong>confine</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>not</td>
<td></td>
<td>together</td>
</tr>
<tr>
<td>21.</td>
<td><strong>flor</strong> (flower)</td>
<td>flora</td>
<td>florist</td>
<td>Florida</td>
<td><strong>floriculture</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>one who</td>
<td></td>
<td>cultivate</td>
</tr>
<tr>
<td>22.</td>
<td><strong>graph</strong> (write, draw)</td>
<td>biology</td>
<td><strong>auto</strong>biography</td>
<td><strong>auto</strong>graph</td>
<td><strong>bibli</strong>graphy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>life</td>
<td>self</td>
<td>book</td>
</tr>
<tr>
<td>23.</td>
<td><strong>hosp</strong> (guest house)</td>
<td>hospital</td>
<td>hospitality</td>
<td><strong>host</strong> (stranger, enemy)</td>
<td>hostage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>hostage</td>
<td>hostel</td>
</tr>
<tr>
<td>24.</td>
<td><strong>logy, ology</strong> (study of, science of)</td>
<td>biology</td>
<td>chronology</td>
<td>ecology</td>
<td>zoology</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>life</td>
<td>time</td>
<td>environment</td>
</tr>
<tr>
<td>25.</td>
<td><strong>medi</strong> (middle)</td>
<td>medial</td>
<td>median</td>
<td>intermediate</td>
<td>Medieval</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Mediterranean</td>
<td>land</td>
</tr>
</tbody>
</table>
Latin and Greek Word Root Chart 4
(LESSONS 26-35)

26. nov (new) novel novice innovation renovate
   in, into again

27. nym, onym (name, word) synonym antonym homonym anonymous
   same opposite same without

28. omni (all) omnipotent omnivore pan (all) panacea panorama
   powerful to eat cure view

29. ped (foot, feet) pedal pedestrian biped pedicure
   two care

30. pri, prim (first) primary primitive primate priority
   relating to state of

31. tend, tens (stretch, strain) extend tense intensity hypertension
   out above, over

32. terr (land) terrace territory Mediterranean terrarium
   middle a place for

33. tract (draw, pull) tractor attract distract extract
   to away out

34. uni (one) united uniform unicycle unison
   wheel sound

35. vis, vid (see) vision visible invisible
   able to not able to video

COPYRIGHT 2014, GLAVACH AND ASSOCIATES
DRAWING MASTER

Direction:
Choose words from the lesson to illustrate.
For each word: draw a picture, a symbol, a cartoon, or an ad, or write the word in an interesting way.

Word ____________________
Root(s)__________________

Word ____________________
Root(s)__________________

Word ____________________
Root(s)__________________

Word ____________________
Root(s)__________________
PART 1

LESSONS
### act to do

**act**- to do something

- It was an act of bravery.

**inactive** (in- not)- not active; not doing anything

- Are most healthy people active or inactive?

**react** (re- again)- to act again; to respond to

- She reacted to the good news with a smile.

**interact** (inter- together, between)- to act together with others

- I like to do things together with other people; I like to interact with them.

---

<table>
<thead>
<tr>
<th><strong>act</strong></th>
<th><strong>in act ive</strong></th>
<th><strong>re act</strong></th>
<th><strong>inter act</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>act</td>
<td>in act ive</td>
<td>re act</td>
<td>inter act</td>
</tr>
</tbody>
</table>

- Write the complete word on the lines.
- Write the definition.
- Write the word in a sentence.

1. **act** (to do) = a c t

   **Definition** to do something

   **Sentence** It was an act of bravery.

2. **in** (not)+ **act** (to do) + ivate =

   **Definition**

   **Sentence**

3. **re** (again)+ **act** (to do) =

   **Definition**

   **Sentence**

4. **inter** (together)+ **act** (to do) =

   **Definition**

   **Sentence**
2  anim  life, spirit

animal- a living thing  • What is your favorite animal?

animate- to make alive; lively; full of life and spirit
  • Her idea led to an animated discussion.

inanimate (in- without)- without life or spirit
  • Are baseballs and chairs animate or inanimate?

magnanimous (magn- great)- great; generous spirit, forgiving
  • The magnanimous president was loved by all.

• Say each word.  • Underline the word roots.  • Write each word again as one word.

anim   animate   inanimate   magnanimous

• Write the complete word.  • Write the definition.  • Write the word in a sentence.

1. anim (life, spirit) + al = __ __ __ __
Definition
Sentence

2. anim (life, spirit) + ate = __ __ __ __
Definition
Sentence

3. in (without) + anim (life, spirit) + ate = __ __ __ __ __ __
Definition
Sentence

4. magn (great) + anim (life, spirit) + OUS = __ __ __ __ __ __
Definition
Sentence
3 aqu, aqua water

aquatic- things happening in or on the water
  • I enjoy aquatic sports such as swimming and water skiing.

aquarium (arium- a place)- a place for keeping fishes and marine plants
  • Their aquarium has goldfish and aquatic plants.

aqueduct (duct- to lead)- a large pipe or canal to lead or carry water over a long distance.
  • The aqueduct makes farming possible.

aquanaut (naut- explorer)- an underwater explorer (diver, etc.)
  • She is working as an aquanaut.

• Say each word.  • Underline the word roots.  • Write each word again as one word.
  a qua tic           a qu arium           a que duct           a qu a naut

• Write the complete word.  • Write the definition.  • Write the word in a sentence.

1. aqua (water) + tic = ________________________
   Definition
   Sentence

2. aqu (water) + arium (a place) = ________________________
   Definition
   Sentence

3. aqu (water) + e + duct (to lead) = ________________________
   Definition
   Sentence

4. aqua (water) + naut (explorer) = ________________________
   Definition
   Sentence
hydrant- a large water pipe for drawing water (fire hydrant)
- Water hydrants are important to help put out fires.

dehydrate (de- remove)- to remove all water from
- Grapes are dehydrated to make raisins.

hydrophobia (phobia- fear)- fear of water
- I love swimming; I don’t have hydrophobia.

hydroelectric- producing electricity by the action of falling water
- Why are hydroelectric power stations found near water?

- Say each word.  • Underline the word roots.  • Write each word again as one word.
hydrant    hydro    electric    hydrophobia    dehydrate

- Write the complete word.  • Write the definition.  • Write the word in a sentence.

1. **hydr** (water) + ant = _____________
  Definition
  Sentence

2. **de** (remove) + **hydr** (water) + ate = _____________
  Definition
  Sentence

3. **hydro** (water) + **phobia** (fear) = _____________
  Definition
  Sentence

4. **hydro** (water) + **electric** = _____________
  Definition
  Sentence
5  art  skill

art- a skill by which one creates
- Acting, painting, writing, and composing are all forms of art.

artist (ist- one who)- one who is skilled in music, literature, or any other form of art
- The singer gave an artistic performance.

artisan- a person skilled in a particular craft (carpenter, plumber, electrician, etc.)
- We called a plumber to fix our leaky faucet.

artificial (fic- make)- made by skilled people, not by nature
- The artificial flowers are made of plastic.

- Say each word.  • Underline the word roots.  • Write each word again as one word.
  art  artist  artis an  artific  ial

- Write the complete word.  • Write the definition.  • Write the word in a sentence.

1. art (skill) = _ _ _ 
   Definition
   Sentence

2. art (skill) + ist (one who) = _ _ _ _ _ _
   Definition
   Sentence

3. art (skill) + isan = _ _ _ _ _ _
   Definition
   Sentence

4. art (skill) + i + fic (make) + ial = _ _ _ _ _ _ _ _
   Definition
   Sentence
<table>
<thead>
<tr>
<th>Word</th>
<th>Meaning</th>
<th>Sentence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>audible</strong></td>
<td>able to be heard</td>
<td>His voice was barely audible.</td>
</tr>
<tr>
<td><strong>inaudible</strong></td>
<td>not able to be heard</td>
<td>His voice was inaudible.</td>
</tr>
<tr>
<td><strong>audience</strong></td>
<td>a group of listeners</td>
<td>The audience clapped loudly.</td>
</tr>
<tr>
<td><strong>audition</strong></td>
<td>a hearing</td>
<td>The actor was given an audition for a part in the play.</td>
</tr>
</tbody>
</table>

- **aud** (hear, listen) + **ible** (able, to) = _ _ _ _ _ _ _ _
- **in** (not) + **aud** (hear, listen) + **ible** (able to) = _ _ _ _ _ _ _ _
- **aud** (hear, listen) + **ience** = _ _ _ _ _ _ _ _
- **aud** (hear, listen) + **ition** = _ _ _ _ _ _ _ _
bi two

**bicycle** (cycl- wheel)- a light vehicle with **two** large **wheels**
- How do you think the bicycle got its name?

**bilingual** (lingu- language)- able to use **two languages**
- I am studying a second **language**; I will be bilingual.

**bio** life

**biology** (logy- study)- the **study** of life.
- My biology class has posters of interesting plants and animals.

**biography** (graph- write)- one’s **life** story **written** by another
- He is reading a **biography**, the life story of his favorite baseball player.

---

- Say each word.  
- Underline the word roots.  
- Write each word again as one word.

<table>
<thead>
<tr>
<th>bi</th>
<th>cy</th>
<th>cle</th>
<th>bi</th>
<th>lin</th>
<th>gu</th>
<th>al</th>
<th>bio</th>
<th>lo</th>
<th>gy</th>
<th>bi</th>
<th>o</th>
<th>gra</th>
<th>phy</th>
</tr>
</thead>
</table>

- Write the complete word.  
- Write the definition.  
- Write the word in a sentence.

1. **bi** (two) + **cycl** (wheel) + e = _ _ _ _ _ _ _ _

   **Definition**

   **Sentence**

2. **bi** (two) + **lingu** (language) + al = _ _ _ _ _ _ _ _

   **Definition**

   **Sentence**

3. **bio** (life) + **logy** (study) = _ _ _ _ _ _ _ _

   **Definition**

   **Sentence**

4. **bio** (life) + **graph** (write, draw) + y = _ _ _ _ _ _ _ _

   **Definition**

   **Sentence**
cap, cept
take, receive

accept- to receive; to agree to
• He accepted the invitation to the birthday party.

intercept (inter- between)- to come between; to take before arrival
• He tried to intercept the football pass.

capable (able- able to)- able to receive knowledge; clever
• She is a capable mechanic.

capture- to take charge of
• The police captured the person who robbed the bank.

Say each word. Underline the word roots. Write each word again as one word.
ac cept inter cept cap able cap ture

Write the complete word. Write the definition. Write the word in a sentence.

1. ac + cept (receive) = __ __ __ __ __
Definition
Sentence

2. inter (between) + cept (take, receive) = __ __ __ __ __ __
Definition
Sentence

3. cap (take, receive) + able (able to) = __ __ __ __ __
Definition
Sentence

4. cap (take, receive) + ture = __ __ __ __ __
Definition
Sentence
**cent** hundred

**century** - a period of 100 years
- We live in the twenty-first century.

**centennial** (enn-years) - happening once every 100 years
- The United States celebrated its centennial in 1876.

**bicentennial** (bi-two) (enn-years) - happening once every two hundred years
- The United States had its bicentennial in 1976.

**percent** (per-parts) - number of parts per hundred
- Twenty cents is twenty percent of a dollar.

Say each word. Underline the word roots. Write each word again as one word.

<table>
<thead>
<tr>
<th>Word</th>
<th>Definition</th>
<th>Sentence</th>
</tr>
</thead>
<tbody>
<tr>
<td>cent ury</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cent enn ial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bi cent enn ial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>per cent</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Write the complete word. Write the definition. Write the word in a sentence.

1. **cent** (hundred) + ury = _ _ _ _ _ _

Definition

Sentence

2. **cent** (hundred) + **enn** (years) + ial = _ _ _ _ _ _ _ _ _

Definition

Sentence

3. **bi** (two) + **cent** (hundred) + **enn** (years) + ial = _ _ _ _ _ _ _ _ _ _ _ _

Definition

Sentence

4. **per** (parts) + **cent** (hundred) = _ _ _ _ _ _

Definition

Sentence
| 1.   | cert (sure) + ain = _ _ _ _ _ _ _ _ |
|      | Definition |
|      | Sentence |
| 2.   | un (not) + cert (sure) + ain = _ _ _ _ _ _ _ _ |
|      | Definition |
|      | Sentence |
| 3.   | cert (sure) + i + fy (make) = _ _ _ _ _ _ _ _ |
|      | Definition |
|      | Sentence |
| 4.   | cert (sure) + ificate = _ _ _ _ _ _ _ _ _ _ |
|      | Definition |
|      | Sentence |
chronic- lasting a long time, as in a disease or a disorder

- Is arthritis a chronic illness?

chronology (ology- science of)- the science of arranging events by time

- I made a chronology of the events in the Civil War.

synchronize (syn- together, same)- to happen at the same time

- The divers synchronized their watches before going into the water.

chronometer (meter- to measure)- an instrument that measures extremely accurate time

- How did the chronometer change navigation?

• Say each word.  • Underline the word roots.  • Write each word again as one word.
chronic chronology synchro nize chronometer

• Write the complete word.  • Write the definition.  • Write the word in a sentence.

1. **chron** (†time) + ic = __ __ __ __ __ __

    **Definition**

    **Sentence**

2. **chron** (†time) + ology (science of) = __ __ __ __ __ __ __ __ __

    **Definition**

    **Sentence**

3. **syn** (same) + **chron** (†time) + ize = __ __ __ __ __ __ __ __ __

    **Definition**

    **Sentence**

4. **chron** (†time) + 0 + **meter** (to measure) = __ __ __ __ __ __ __ __ __

    **Definition**

    **Sentence**
**circ, circum**

**around**

circle (circ- around) - a round shape.
- We sat in a circle around the campfire.

circus - a circular arena with seats all around; has clowns, etc.
- Have you been to a circus?

circumvent (vent- to go) - to bypass or to go around
- They must circumvent the obstacles in the mountain pass to get home.

circumnavigate (nav- sail) - to sail or fly completely around something
- The ship will circumnavigate the globe.

 Say each word.  Underline the word roots.  Write each word again as one word.

circle  circus  circumvent  circumnavigate

Write the complete word.  Write the definition.  Write the word in a sentence.

1. **circ** (around) + le = __ __ __ __ __

   Definition

   Sentence

2. **circ** (around) + us = __ __ __ __ __

   Definition

   Sentence

3. **circum** (around) + vent (to go) = __ __ __ __ __ __ __

   Definition

   Sentence

4. **circum** (around) + nav (sail) + gate = __ __ __ __ __ __ __ __ __

   Definition

   Sentence