

Method of Study 'Learn & Teach'! Study all life long!

1 GOD's latest message the Law-Giver Manifest

1GOD 1FAITH 1Church Universe Custodian Guardians



When studying or teaching not only research this guide but a variety of others.

Method of study is 'Learn & Teach'. Learn & Teach uses Study-Topics + Word-find to facilitate learning & teaching. Study-topics are based on the 'Law-Giver Manifest' & current Social-Justice issues. Learning & teaching are continues & ongoing all life long.



Study-advise

When studying or teaching not only research this guide but a variety of others. When finding a well written piece *Plagiarize* parts you need & expand on these (applies to Scholars & Educators).

Run: spell-check & grammar-check.

Add: color, images & audio were needed.

Proof read, if needed make changes.

Make your work 'Copyright-free' & then publish.

Learn & Teach uses Study-topics + Word-find to facilitate learning & teaching. E.g. Essay (700 words), Extended Essay (1400 words), Speech (3 minutes), Presentation (7 minutes), Group Discussion (7 minutes), Campaign, Poster.

STUDY - AIDS: Directory

Add-Table ~ Adult-teaching ~ Assessment ~ Ideas ~ Magic ~ Math-symbols ~ Measures ~ Numbers-usage ~ Plagiarize ~ Writing ~



ADD-TABLE

Study-Aid

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The addition table contains 400 additions. Going from left to right in any row, or from top to bottom in any column, each new number is 1 more (+) than the previous number (*successor*). Successors are a **Sequence** of numbers e.g. 0, 1, 2, 3, 4, 5, ... Shaded boxes are doubles of digits e.g. 2+2=4

| + | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

O (zero) is not included; adding O (zero) to any number results in the same number. Pick a number (digit) on the top horizontal line; [add(+)] with a number on the far left vertical line. Move right on this vertical line until the relevant horizontal line is reached. E.g. 3+5=8 Note: 3+5 has the same result as 5+3=8 Addends can be swapped result is the same.

+ Plus + Plus

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Begin with introducing yourself. Then ask the adult learners to introduce themselves.

Share some of yourself (humor, experiences, feelings, self) be honest, authentic & self-disclosing.

Pray with your adult learners: Scholar-Prayer

Make sure their 1st experiences with the subject or class are as positive as possible.

Relate learning to adult interests, concerns & values.

Selectively emphasize & deal with the human perspective of what is being learned, with applications to the personal daily lives of the adult learners whenever possible.

Use needs assessment techniques to determine the felt needs & actual needs of the learners using assessments administered by the instructor & self-assessments by the adult learner.

Provide opportunities for self-directed learning where adults can participate in setting objectives, selecting instructional methods, self-evaluating & analyzing their performance.

Make the learning goals as clear as possible & as appropriate to the learners as possible.

Give the rationale for assignments, procedures & instructional methods.

When possible, clearly state or demonstrate the learning that will result from learning activities.

Ensure successful learning by planning instructional activities that match the needs & objectives of adult learners.

Create a learning environment that is organized & orderly.

Make learner reaction & active participation an essential part of the learning process.

Provide frequent response opportunities for all adult learners on an equitable basis.

Promote learners personal control over the context of learning by involving them in the planning & setting of goals, self-evaluation & determination of their strengths & weaknesses & recording & analyzing progress.

Use consistent feedback to learners regarding their mastery, progress & responsibility in learning.

Be aware of the needs of adults: their physiological, safety, love & belonging & self-esteem needs & curiosity, sense of wonder & need to explore.

Remove or reduce components of learning situations that lead to failure & fear.

Plan with the motivation of the learners in mind. Don't assume that the content or the teacher will maintain their motivation.

When it is necessary, use constructive criticism.

Introduce the unfamiliar through the familiar.

Effectively use praise & reward learning.

Encourage & challenge the learners.

Use collaboration as an instructional technique to develop & maximize cohesiveness in the group.

Create components in the learning environment that tell learners they are accepted respected members of the group

When appropriate, plan activities that allow adults to share & to display publicly their projects & skills.

Introduce the unfamiliar through the familiar.

Effectively use praise & reward learning.

Encourage & challenge the learners.

Use collaboration as an instructional technique to develop & maximize cohesiveness in the group.

Create components in the learning environment that tell learners they are accepted respected members of the group

When appropriate, plan activities that allow adults to share & to display publicly their projects & skills.

Provide variety in presentational style, methods of instruction & learning materials.

Selectively use breaks, physical exercise & energizers.

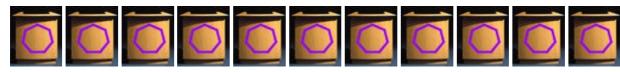
Use humor liberally & frequently.

Use examples, stories, analogies & metaphors.

Thank adult learners for attending & participating (meet again, give timetable).

Have time to answer questions 1 on 1.

After session when alone Self-evaluate your performance. Make notes in your journal concerning impressions & knowledge gained *(learned)* from teaching this group. Act on your self-evaluation.



Study-Aid

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Assessment: Is needed to make Teach & Learn useful & effective.

Scholars-Assessment:

Scholars are assessed for comprehension assignments completed in class. Whenever a study-module is completed, Scholars get assignments to assess comprehension. The comprehension assignments are completed in class. **Note!** There is: 'NO Homework'!!!

It is a team-effort of scholars & educator. The educator is there to Guide. Scholars help each other to understand & comprehend the relevant study-module.

Comprehension is achieved when the scholar is capable of teaching others the study-module & creating his/her own assignment & completing it.

There are 2 assessment: **Pass** or **Fail**. Pass-rate is 70% comprehension. A fail & the scholar has to repeat the study-module until a pass. **Note!** Only the module needs repeating not the whole year. There is no final year Assessment &/or final examinations (useless activity).

Assessment is only for each module, not for accumulated modules. When a Scholar has passed all set modules to complete a Course a Certificate is issued.

Educators-Assessment:

Educators are assessed for work-competence, dedication to 'Learn & Teach' & pupil comprehension.

Before each teaching-term all study-module comprehension assignments for the term must be 'successfully' completed by the relevant educator. The Educator must have a Pass-rate of at least 90%. Failure, the educator does not teach this subject that term. An assessment needs to be made if that person is suitable to be involved with Education.

The Educator is there to Guide. Help the scholar to understand. Also utilize the faster learners to help the slower. Keep class focused. The educator needs to refuse to give '*Homework*'!

A teacher needs to be able to 'self-assess' their teaching performance.

A class pupil comprehension-rate of 90% plus is acceptable. Anything less & educator (*Teacher*) is removed & retrained.

Principal Educators-Assessment:

A School pupil comprehension-rate of 90% plus is acceptable. Anything less & Principal-Educator is removed. Returns to teaching.

Study-Aid



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Ideas Are the beginning of the Future.

Ideas make it possible to keep up with evolutionary changes. Ideas are the most productive of all intellectual property activity. Ideas need to be preserved through **Knowledge-Continuity**.

Don't let Ideas be forgotten or lost. Write them down. Store, sort, file & revisit them!

Every day lots of ideas are thought off & quickly forgotten or lost. The reason being they were not preserved, recorded or written down. The best are lost!

Memory is unreliable when it comes to preserving & nurturing new ideas. Carry a notebook (*Planner*) or recorder with you & when an idea develops, preserve it. Weekly file your ideas!

Review your ideas. As you review your ideas (every 4 weeks is good). Some will have no value & are not worth hanging on to. Discard them. Some ideas appear useful now or at some later date. Keep these & file them: 'Active', or 'Later'. After reviewing & filing take the 'Active' file.

Pick an idea! Now make this idea grow. Think about it. Tie the idea to related ideas. Research, try to find anything akin or compatible with this idea. Investigate all angles & possibilities.

When you think your idea is ready to be applied. Do so. Try to get feedback so the idea can be fine-tuned.

Future proof Ideas through Knowledge-Continuity. Ensure Knowledge-Continuity by keeping your Ideas files updated. Furthermore in your 'Will' mention where they can be found.

Support your Ideas with Research. Research Internet, Archives, libraries... In some cases use questionnaires'.

Ideas procedure is used by custodian-guardian, individuals, committees, work-groups...
Use a C-G Planner.



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The fun in magic squares is the fact that whichever way the numbers in the square are added up: vertically (v), horizontally (h) or diagonally (d) the result is the same.

Magic squares

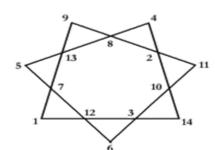
E.g. Magic Squares with 9, 16 & 25 numbers

| Chall | enge |
|-------|------|
| | |

Create a 49 number Magic Square?

| Ma | gic Squ | ares | | v34 | v34 | v34 | v34 | d34 |
|-----|------------|-------|--------|-----|-------|--------|-----|-----|
| v15 | V15 | V15 | d15 | 16 | 3 | 2 | 13 | h34 |
| 8 | 1 | 6 | h15 | 5 | 10 | 11 | 8 | h34 |
| 3 | 5 | 7 | h15 | 9 | 6 | 7 | 12 | h34 |
| 4 | 9 | 2 | h15 | 4 | 15 | 14 | 1 | h34 |
| | AVE | | d15 | 4 | corne | rs = 3 | 4 | d34 |
| v65 | v65 | v65 | v65 | v65 | d65 | | | |
| 11 | 24 | 7 | 20 | 3 | h65 | | | |
| 4 | 12 | 25 | 8 | 16 | h65 | | | |
| 17 | 5 | 13 | 21 | 9 | h65 | 长言 | | |
| 10 | 18 | 1 | 14 | 22 | h65 | | | |
| 23 | 6 | 19 | 2 | 15 | h65 | | | |
| 4 c | orners | + mic | ldle = | 65 | d65 | | | |

Magic numbers



The Magic Hepta-gram numbers are placed at each of the vertices & intersections so that the 4 numbers on each line sum 30





Create a 7 pointed Magic Hepta-sun-star?



Mathematical symbols Study-Aid

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| = result equal to | ≠ not equa | al to | ≡identically equal to | | | | |
|-------------------------------|----------------------------|--------------|-----------------------|----------|--|--|--|
| + adding merges mo | re than 1 cou | ınting res | Triangle | | | | |
| - take-away reduces | a previous r | esult | | | | | |
| ± plus or minus | | ∓ minus | ∓ minus or plus | | | | |
| • or x multiplying (st | impler) <mark>cou</mark> r | iting amo | unts of similar items | | | | |
| / or ÷ dividing porti | oning of a pr | evious re | sult | Rentagon | | | |
| & so on | | ∞ infinit | y | Tentagon | | | |
| > greater than | | < less th | an | | | | |
| ≥ equal to or greater | than | ≤ equal | to or less than | Hexagon | | | |
| » much greater than | | « much] | less than | | | | |
| ≯ not greater than | | ≮ not le | ess than | Heptagon | | | |
| % percent | | ‰ perm | nil | | | | |
| ~ is proportional to | | ≈ is app | Octagon | | | | |
| Ω Omega, sum of all | | □ corres | | | | | |
| factor multipliciti | es | Δ Delta, | | | | | |
| π Pi, product of | | Sigma | Nonagon | | | | |
| $\sqrt{\text{square root}}$ | | { } brace | \prec | | | | |
| [] square brackets | | { , } set (| Decagon | | | | |
| () parentheses | | {} & s | | | | | |
| : therefore | | ∵ becaus | Diamond | | | | |
| ⊆ subset | | ⊇ supers | set | Diamoja | | | |
| ∈ element of | | ∉ not ele | ement of | | | | |
| Ø empty set | | U unive | Rectangle | | | | |
| ∫ integral | | ∮ closed | | | | | |
| ∬ double integral | | ∯ closed | Circle | | | | |
| ∭ triple integral | | ∰ close | | | | | |
| | | | | Oval | | | |



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New-Age Units of Measure are an updated metric version..

Length Base unit: $meter(m) \sim Area Base$ unit: $square-meter(m^2) \sim 3D$ $meter(m^3) \sim Volume Base$ unit: $liter(l) \sim Weight Base$ unit: gram(q)

Measure prefixes. Use Capitalized prefixes for positive powers.

```
Prefix Symbol Power Value
Yotta
          Y
                10[24]
                         1,000,000,000,000,000,000,000
          \mathbf{Z}
Zetta
                10[21]
                         1,000,000,000,000,000,000
          E
                         1,000,000,000,000,000
Exa
                10[18]
                10[15]
          P
                         1,000,000,000,000,000
Peta
Tera
          T
                10[12]
                         1,000,000,000,000
Giga
          G
                10[9]
                         1,000,000,000
Mega
          \mathbf{M}
                10[6]
                         1,000,000
Myria
          My
                10[4]
                         10,000
Kilo
          K
                10[3]
                         1,000
Hecto
          Η
                10[2]
                         100
          D
                10[1]
Deca
                         10
base
          b
                10[0]
                         1
deci
          d
                10[-1]
                         0.1
centi
           \mathbf{c}
                10[-2]
                         0.01
milli
                10[-3]
          m
                         0.001
micro
                10[-6]
                         0.000,001
          μ
                10[-9]
nano
                         0.000,000,001
          n
pico
                10[-12]
                         0.000,000,000,001
          p
femto
                10[-15]
                         0.000,000,000,000,001
           f
atto
                10[-18]
                         0.000,000,000,000,000,001
           a
                10[-21]
                         0.000,000,000,000,000,000,001
zepto
           \mathbf{Z}
                10[-24]
                         0.000,000,000,000,000,000,000,001
vocto
          V
```

Length Base unit: *meter* (m) small letter prefixes are (≤) values of base [] brackets tell power value. Distance between 2 points. E.g. 0..→..10 = 10

```
Prefix Symbol Power Value
1Yotta
        Ym
              10[24]
                      1,000,000,000,000,000,000,000
1Zetta
        Zm
              10[21]
                      1,000,000,000,000,000,000
1Exa
              10[18]
                      1,000,000,000,000,000
        Em
                      1,000,000,000,000,000
1Peta
        Pm
              10[15]
1Tera
        Tm
              10[12]
                      1,000,000,000,000
1Giga
              10[9]
                      1,000,000,000
        Gm
              10[6]
1Mega
        Mm
                      1,000,000
1Myria
       Mym
              10[4]
                      10,000
1Kilo
        Km
              10[3]
                      1,000
1Hecto
        Hm
              10[2]
                      100
1Deca
        Dm
              10[1]
                      10
```

```
1meter
                10[0]
          m
                          1
1deci
          dm
                10[-1]
                          0.1
                10[-2]
1centi
          cm
                          0.01
1milli
                10[-3]
         mm
                          0.001
1micro
                10[-6]
                          0.000,001
          μm
                10[-9]
1nano
                          0.000,000,001
          nm
1pico
                10[-12]
                          0.000,000,000,001
          pm
                10[-15]
1femto
          fm
                          0.000,000,000,000,001
1atto
                10[-18]
                          0.000,000,000,000,000,001
          am
                10[-21]
1zepto
                          0.000,000,000,000,000,000,001
          zm
                10[-24]
                          0.000,000,000,000,000,000,000,001
1yocto
          ym
Square-meter (m<sup>2</sup>) small letter prefixes are (\leq) values of base unit.
Width & breadth of an Area multiplied. E.g. 10•10 = 100m<sup>2</sup>
Prefix Symbol Power Value
         Ym<sup>2</sup>
                10[24]
1Yotta
                          1,000,000,000,000,000,000,000
         Zm^2
1Zetta
                10[21]
                          1,000,000,000,000,000,000
         Em^2
1Exa
                10[18]
                          1,000,000,000,000,000,000
1Peta
         Pm<sup>2</sup>
                10[15]
                          1,000,000,000,000,000
1Tera
         Tm^2
                10[12]
                          1,000,000,000,000
         Gm<sup>2</sup>
1Giga
                10[9]
                          1,000,000,000
                10[6]
1Mega
        Mm^2
                          1,000,000
1Myria Mym<sup>2</sup>
                10[4]
                          10,000
1Kilo
         Km<sup>2</sup>
                10[3]
                          1,000
1Hecto
         Hm^2
                10[2]
                          100
1Deca
         Dm^2
                10[1]
                          10
1meter
         m^2
                10[0]
                          1
         dm^2
                10[-1]
1deci
                          0.1
         cm^2
1centi
                10[-2]
                          0.01
1milli
         mm^2
                10[-3]
                          0.001
1micro
         \mum<sup>2</sup>
                10[-6]
                          0.000,001
         nm<sup>2</sup>
                10[-9]
1nano
                          0.000,000,001
1pico
         pm^2
                10[-12]
                          0.000,000,000,001
                10[-15]
         fm^2
1femto
                          0.000,000,000,000,001
1atto
         am<sup>2</sup>
                10[-18]
                          0.000,000,000,000,000,001
                10[-21]
                          0.000,000,000,000,000,000,001
1zepto
         zm^2
1yocto
         ym^2
                10[-24]
                          0.000,000,000,000,000,000,000,001
                             Square-meter
                                                           Cubic-meter
                     1 m
                             (m^2)
                                                           (m^3)
                    1 \, \mathrm{m}^2
```

Cubic-meter (m³) small letter prefixes are (\leq) values of base unit. Width, breadth & depth of an Object multiplied. E.g. 10•10•10 = 1000m³ Prefix Symbol Power [] Value 1Yotta Ym³ 10[24] 1,000,000,000,000,000,000,000

```
Zm^3
                10[21]
1Zetta
                          1,000,000,000,000,000,000
         Em^3
                10[18]
1Exa
                          1,000,000,000,000,000,000
1Peta
         Pm<sup>3</sup>
                10[15]
                          1,000,000,000,000,000
1Tera
         Tm^3
                10[12]
                          1,000,000,000,000
1Giga
         Gm<sup>3</sup>
                10[9]
                          1,000,000,000
                          1,000,000
1Mega
         Mm^3
                10[6]
1Myria
        Mym<sup>3</sup>
                10[4]
                          10,000
         Km<sup>3</sup>
1Kilo
                10[3]
                          1,000
1Hecto
         Hm^3
                10[2]
                          100
         Dm^3
                10[1]
1Deca
                          10
          m^3
                10[0]
1meter
                          1
                10[-1]
         dm^3
1deci
                          0.1
1centi
         cm^3
                10[-2]
                          0.01
1milli
                10[-3]
         mm^3
                          0.001
                10[-6]
1micro
         \mum<sup>3</sup>
                          0.000,001
                10[-9]
1nano
         nm^3
                          0.000,000,001
1pico
         pm^3
                10[-12]
                          0.000,000,000,001
         fm^3
1femto
                10[-15]
                          0.000,000,000,000,001
         am<sup>3</sup>
                10[-18]
                          0.000,000,000,000,000,001
1atto
         zm^3
                10[-21]
                          0.000,000,000,000,000,000,001
1zepto
1yocto
         vm^3
                10[-24]
                          0.000,000,000,000,000,000,000,001
Volume Base unit: liter (1) small letter prefixes are (\leq) values of base unit.
\square brackets tell power value. Volume between 2 measures. E.g. 0..\rightarrow..10 = 10
Prefix Symbol Power Value
          Yl
1Yotta
                10[24]
                          1,000,000,000,000,000,000,000
1Zetta
          Zl
                10[21]
                          1,000,000,000,000,000,000
1Exa
          El
                10[18]
                          1,000,000,000,000,000
          Pl
1Peta
                10[15]
                          1,000,000,000,000,000
          Tl
1Tera
                10[12]
                          1,000,000,000,000
          Gl
1Giga
                10[9]
                          1,000,000,000
1Mega
          Ml
                10[6]
                          1,000,000
1Myria
         Myl
                10[4]
                          10,000
1Kilo
          Kl
                10[3]
                          1,000
          Hl
1Hecto
                10[2]
                          100
1Deca
          Dl
                10[1]
                          10
           1
1meter
                10[0]
                          1
1deci
          dl
                10[-1]
                          0.1
           cl
1centi
                10[-2]
                          0.01
1milli
          ml
                10[-3]
                          0.001
1micro
          μl
                10[-6]
                          0.000,001
          nl
                10[-9]
1nano
                          0.000,000,001
1pico
          pl
                10[-12]
                          0.000,000,000,001
           fl
1femto
                10[-15]
                          0.000,000,000,000,001
           al
                          0.000,000,000,000,000,001
1atto
                10[-18]
```

```
1zepto zl 10[-21] 0.000,000,000,000,000,000
1yocto yl 10[-24] 0.000,000,000,000,000,000,000
```





Weight Base unit: *gram* (g) small letter prefixes are (≤) values of base unit. ☐ brackets tell power value. Weight between 2 measures. E.g. 0..→..10 = 10

```
Prefix Symbol Power Value
1Yotta
         Yg
               10[24]
                        1,000,000,000,000,000,000,000
         Zg
1Zetta
               10[21]
                        1,000,000,000,000,000,000
               10[18]
                        1,000,000,000,000,000
1Exa
         Eg
1Peta
               10[15]
                        1,000,000,000,000,000
         Pg
               10[12]
1Tera
         Tg
                        1,000,000,000,000
1Giga
         Gg
               10[9]
                        1,000,000,000
               10[6]
1Mega
         Mg
                        1,000,000
1Myria
               10[4]
        Myg
                        10,000
1Kilo
               10[3]
         Kg
                        1,000
1Hecto
         Hg
               10[2]
                        100
1Deca
               10[1]
         Dg
                        10
               10[0]
1meter
         g
                        1
1deci
               10[-1]
         dg
                        0.1
               10[-2]
1centi
         cg
                        0.01
1milli
               10[-3]
         mg
                        0.001
1micro
               10[-6]
                        0.000,001
         μg
               10[-9]
1nano
         ng
                        0.000,000,001
1pico
               10[-12]
                        0.000,000,000,001
         pg
1femto
               10[-15]
                        0.000,000,000,000,001
         fg
               10[-18]
                        0.000,000,000,000,000,001
1atto
         ag
               10[-21]
                        0.000,000,000,000,000,000,001
1zepto
         zg
1yocto
               10[-24]
                        0.000,000,000,000,000,000,000,001
         yg
```

PS-1 (*Packaging-standard*) covers consumer needs: honest easily to compare product quantities' & packaging. Packaging needs to be recyclable.

Government need to standardize packaging content size: solid *(gram/Kg)*, liquid *(liter)*. Standard has to apply to commercial, industrial & personal packaging. Packaging must also be recyclable.

Universe Custodian Guardians Packaging Standard Table.

Solid weights (g/kg) & Liquid weights (l) can only be packed, distributed & sold in the 14 quantities shown in the table.

```
1 g ~ 5 g ~ 10 g ~ 20 g ~ 50 g ~
100 g ~ 200 g ~ 500 g ~
1 Kg ~ 2 Kg ~ 5 Kg ~
10 Kg ~ 20 Kg ~ 50 Kg ~ 100 Kg
```



1 ml ~ 5 ml ~ 10 ml ~ 20 ml ~ 50 ml ~ 100 ml ~ 200 ml ~ 500 ml ~ 1 l ~ 2 l ~ 5 l ~ 10 l ~ 20 l ~ 50 l ~ 100 l ~



Consumer-Guidance: Solid & Liquid weights need to show the price for 1 kg/1l to compare prices + the actual weight & price.

Packaging must be recyclable.

The product with the lowest kg/l price is the 'BARGAIN'.

Profit orientated economies allow immoral criminal '**Deceitful-Packaging** (*Fraud*)'. Consumers need protection from deceitful, profiteering, dishonest greedy producers, manufacturers & retailers who use 'Deceitful-packaging' (*down-sizing content*) to take advantage (*rip-off*) of consumers. **MS/R3**

Support **PS-1** Packaging-standard & punish deceitful Packagers.

Examples of how the deceitful, dishonest & greedy system works.

A manufacturer product comes in a 0.440kg package using their brand label. The same product is also labeled as a retailers home-brand, but the package content is reduced to 0.415kg. This is done so the retailer can sell their home-brand at a lower price than the manufacturer brand. This is a deceitful, dishonest & greedy trick to fool the consumer into thinking that the home-brand is a bargain because of its lower price. When in fact, because the consumer gets less product there is no saving & sometimes the consumer in reality ends up paying more.

A manufacturer packs his product in a 0.440kg package. Another manufacturer uses the same size packaging but (in a deceitful, dishonest & greedy manner) only puts 0.425kg of product in. If products are sold at the same price, the 2nd manufacturer makes a greater profit & the consumer gets less product for the same amount of money spend. The consumer was deceived.

The 2nd manufacturer sells at a lower price, his product looks like a bargain. Because there is less product in the 2nd package it should therefore sell for less, not making it a bargain anymore. The 2nd manufacturer hopes in a deceitful, dishonest & greedy manner, that the consumer will not check the weight since his packaging looks similar to competing products.

Packaging comes often with less than full content (oversized packaging). This deceit is meant to deceive consumers in believing they get more then they actually get!

Government need to standardize packaging content size: solid (*gram/Kg*) & liquid (*liter*). Standard has to apply to commercial, industrial & personal packaging. Packaging must also be recyclable.

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A: Odd-numbers consist of 1, 3, 5, 7, 9, & all numbers whose last digit is one of these.

B: Even-numbers consist of 0, 2, 4, 6, 8, & all numbers whose last digit is one of these.

C: Whole-numbers consist of odd & even numbers.

D: Binary-number are a base-2 number system using 2 symbols, 0 & 1

E%: Per Cent to find 15% of 100 multiply the % & the number!

Method1: Express the given % as a fraction, multiply $15/100 \times 100 = 15$.

Method2: Express the given % as a decimal, multiply $0.15 \times 100 = 15$.

F: Fraction 3 steps are needed to convert 15% into the common fraction 3/20:

1. Omit the % sign. **2.** Divide by $100 \sim 15/100$ **3.** Reduce to lowest terms $\sim 3/20$.

G: Decimal convert 15% into decimal. Omit the % sign. Then move the decimal point of the % two places to the left = 0.15

H: Nature-sequence Numbers allow the creation of a **Sequence** of numbers e.g. 0, 1, 1, 2, 3 ... after 2 initial numbers, each number is the sum of the 2 preceding numbers.

I: Prime-numbers Finding prime-numbers (whole numbers divisible by themselves) E.g. find all prime-numbers to 20. List all numbers from 2 to 20. Highlight 2 & disregard all multiples of 2. Highlight the next number (3) that is not highlighted & disregard all its multiples. Repeat until the end of the list is reached. The primes are the numbers highlighted. 2,3,5,7, 11, 13,17, 19,

J: Roman-numbers are based on certain letters of the alphabet which are combined to signify the sum or difference of their values.

| A | В | C | D | E% | F | G | Н | Ι | J |
|----|----|----|------|-----------|--------|------|----|----|------|
| | 0 | 0 | 0 | | | | | | |
| 1 | | 1 | 1 | 1 | 1/100 | 0.01 | 1 | | I |
| | 2 | 2 | 10 | 2 | 1/50 | 0.02 | 2 | 2 | II |
| 3 | | 3 | 11 | 3 | 3/100 | 0.03 | 3 | 3 | III |
| | 4 | 4 | 100 | 4 | 1/25 | 0.04 | | | IV |
| 5 | | 5 | 101 | 5 | 1/20 | 0.05 | 5 | 5 | V |
| | 6 | 6 | 110 | 6 | 3/50 | 0.06 | | | VI |
| 7 | | 7 | 111 | 7 | 7/100 | 0.07 | | 7 | VII |
| | 8 | 8 | 1000 | 8 | 2/25 | 0.08 | 8 | | VIII |
| 9 | | 9 | 1001 | 9 | 9/100 | 0.09 | | | IX |
| | 10 | 10 | 1010 | 10 | 1/10 | 0.10 | | | X |
| 11 | | 11 | 1011 | 11 | 11/100 | 0.11 | | 11 | XI |
| | 12 | 12 | 1100 | 12 | 3/25 | 0.12 | | | XII |
| 13 | | 13 | 1101 | 13 | 13/100 | 0.13 | 13 | 13 | XIII |
| | 14 | 14 | 1110 | 14 | 7/50 | 0.14 | | | XIV |

| | | | | | - 1 | | | | 7777 |
|----|-----|-----|---------|-----|--------|------|----|----|---------|
| 15 | | 15 | 1111 | 15 | 3/20 | 0.15 | | | XV |
| | 16 | 16 | 10000 | 16 | 4/25 | 0.16 | | | XVI |
| 17 | _ | 17 | 10001 | 17 | 17/100 | 0.17 | | 17 | XVII |
| | 18 | 18 | 10010 | 18 | 9/50 | 0.18 | | | XVIII |
| 19 | | 19 | 10011 | 19 | 19/100 | 0.19 | | 19 | XIX |
| | 20 | 20 | 10100 | 20 | 1/5 | 0.20 | | | XX |
| 21 | | 21 | 10101 | 21 | 21/100 | 0.21 | 21 | | XXI |
| | 22 | 22 | 10110 | 22 | 11/50 | 0.22 | | | XXII |
| 23 | | 23 | 10111 | 23 | 23/100 | 0.23 | | 23 | XXIII |
| | 24 | 24 | 11000 | 24 | 6/25 | 0.24 | | | XXIV |
| 25 | | 25 | 11001 | 25 | 1/4 | 0.25 | | | XXV |
| | 26 | 26 | 11010 | 26 | 13/50 | 0.26 | | | XXVI |
| 27 | | 27 | 11011 | 27 | 27/100 | 0.27 | | | XXVII |
| | 28 | 28 | 11100 | 28 | 7/25 | 0.28 | | | XXVIII |
| 29 | | 29 | 11101 | 29 | 29/100 | 0.29 | | 29 | XXIX |
| | 30 | 30 | 11110 | 30 | 3/100 | 0.30 | | | XXX |
| 31 | | 31 | 11111 | 31 | 31/100 | 0.31 | | 31 | XXXI |
| | 32 | 32 | 100000 | 32 | 8/25 | 0.32 | | | XXXII |
| 33 | | 33 | 100001 | 33 | 33/100 | 0.33 | | | XXXIII |
| | 34 | 34 | 100010 | 34 | 17/50 | 0.34 | 34 | | XXXIX |
| 35 | | 35 | 100011 | 35 | 7/20 | 0.35 | | | XXXV |
| | 36 | 36 | 100100 | 36 | 9/25 | 0.36 | | | XXXVI |
| 37 | | 37 | 100101 | 37 | 37/100 | 0.37 | | 37 | XXXVII |
| | 38 | 38 | 100110 | 38 | 19/50 | 0.38 | | | XXXVIII |
| 39 | | 39 | 100111 | 39 | 39/100 | 0.39 | | | XXXIX |
| | 40 | 40 | 101000 | 40 | 2/5 | 0.40 | | | XL |
| 41 | | 41 | 101001 | 41 | 41/100 | 0.41 | | 41 | XLI |
| | 42 | 42 | 101010 | 42 | 21/50 | 0.42 | | | XLII |
| 43 | | 43 | 101011 | 43 | 43/100 | 0.43 | | 43 | XLIII |
| | 44 | 44 | 101100 | 44 | 11/25 | 0.44 | | | XLIV |
| 45 | | 45 | 101101 | 45 | 9/20 | 0.45 | | | XLV |
| | 46 | 46 | 101110 | 46 | 23/50 | 0.46 | | | XLVI |
| 47 | | 47 | 101111 | 47 | 47/100 | 0.47 | | 47 | XLVII |
| | 48 | 48 | 110000 | 48 | 12/25 | 0.48 | | | XLVIII |
| 49 | | 49 | 110001 | 49 | 49/100 | 0.49 | | | XLIX |
| | 50 | 50 | 110010 | 50 | 1/2 | 0.50 | | | L |
| | 100 | 100 | 1100100 | 100 | 1 | 1 | | 97 | С |
| | | | | | | | | | |

Numbers-value UCG1 education

| o > Zero |
|--|
| 1 > One |
| 5 > Five |
| 7 > Seven |
| 10 > Ten |
| 50 > Fifty |
| 100 > Hundred |
| 500 > Fivehundred |
| 1,000 > Thousand |
| 5,000 > Fivethousand |
| 10,000 > Ten-thousand |
| 50,000 > Fifty-thousand |
| 100,000 > Hundred-thousand |
| 500,000 > Fivehundred-thousand |
| 1,000,000 > Million |
| 5,000,000 > Fivemillion |
| 10,000,000, > Ten-million |
| 50,000,000 > Fifty-million |
| 100,000,000,000 > Hundred-billion |
| 500,000,000 > Fivehundred-million |
| 1,000,000 > Billion |
| 5,000,000,000 > Fivebillion |
| 10,000,000,000 > Ten-billion |
| 50,000,000 > Fifty-billion |
| 100,000,000,000 > Hundred-billion |
| 1,000,000,000 > Trillion |
| 5,000,000,000 > Fivetrillion |
| 10,000,000,000 >Ten-trillion |
| 100,000,000,000 > Hundred-trillion |
| Note ! From right to left a comma is placed after each and digit |

Note! From right to left a comma is placed after each 3rd digit.



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The Universe Custodian Guardians support plagiarism in education.

Plagiarize to build on & advance new ideas. Why rewrite something that is well written. Rather use it & expand on it. Evolution progresses by building on existing & then creating new. Education should do the same.

Re-writing is time wasting & not in the best interest of broadening the mind. A good piece of writing should be cherished not be mutilated by rewriting. Reading a good piece of writing encourages the mind to lift one's intellect to the high standard of the original. Stopping this thinking to concentrate on rewriting is mediocre education.

Banning plagiarism means stifling educational advancement. Plagiarizing is Good. Plagiarizing advances Education. Plagiarize a good piece of writing & then expand on it. When good writing skills have been gained. A person is ready to create a master-piece that others can plagiarize.

Plagiarism does not only apply to writing. Plagarism applies to all 'IP' Intellectual Property. The Community gives people the means & opportunity to develop Intellectual-Property. Therefore all intellectual-property is community property to be used by all! Selfish use & profiteering from 'IP' is plundering the Community a Crime to be prosecuted: 'MS-R6'

Note! In corrupt, greed, profit driven Anti-GOD countries, plagiarizing may infringe copyright. Claiming Copyright is stealing from the community, criminal behavior. All 'Intellectual Property' belongs to the community for the benefit of all. Corrupt, greed, profit driven Anti-GOD countries, have their Government replaced & proceduted.



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Writing makes us civilized it helps us to communicate with others. Writing allows to comment, fantasy & report. Writing is part of Knowledge-Continuity.

Writing starts with an outline. List the points that you want to make in order of importance. Cover each point fully. A summery is not needed when your material is clear & informative.

Then decide what more research is needed. Let the outline grow in your mind. Rewrite outline.

You are ready to create!

The lead should be ?style. It will convey vital information about what's following, in the shortest & simplest way. A lead needs to persuade the reader to continue reading.

The main part *(story)* presents anecdotes, facts, fiction, opinions. Opinions must be active & personal. Presention needs to be interesting encouraging to read on to the end.

The finished original needs editing (don't edit while writing, it disrupts your writing flow). Don't edit straight away. Sleepover & when refreshed, edit (next day or later). Editing is needed for re-writing. Editing looks at lead, readability, grammar, punctuation, wordage, accuracy & flow of story. Add art-work, drawings, images & graphics were needed. Editing & re-writing should be done at least 3 times with a sleep-over (next day or later) in between.

Finished editing. *Run*: spell-check & grammar-check. *Add final*: color, images & audio were needed. Make your work 'copyright-free' & then publish.

