LOVE THE LORD WITH ALL YOUR MIND: A STUDY IN LOGICAL THINKING



Part Six A Refresher: Wise Thinking





Knowledge is facts. They may be true or false, they may be inconsequential or important.

Knowing how to sort through these facts to determine the truth, and how to properly apply these truths, is wisdom.

Wisdom requires knowledge, humility, compassion, empathy and logic. In the sense of the most important truths, it also requires God's Spirit.

1 Thessalonians 5:21

Prove all things; hold fast that which is good.



Proverbs 1:2–7

To know wisdom and instruction; to perceive the words of understanding; To receive the instruction of wisdom, justice, and judgment, and equity; To give subtilty to the simple, to the young man knowledge and discretion. A wise man will hear, and will increase learning; and a man of understanding shall attain unto wise counsels: To understand a proverb, and the interpretation; the words of the wise, and their dark sayings. The fear of the LORD is the beginning of knowledge: but fools despise wisdom and instruction.

Logic

- The study and application of the principles of correct, rational reasoning.
- To think logically is to think correctly.
- To think logically is to think as God thinks.
- An argument is a coherent series of reasons, statements, or facts intended to support or establish a conclusion (truth).
- Logical fallacies and cognitive biases are flaws in logic that result in easily attacked or false conclusions.



- The weekly Sabbath is always on the seventh day of the week.
- Today is the seventh day of the week.
- Therefore, today is the weekly Sabbath.





- The weekly Sabbath is always on the seventh day of the week.
- Today is the seventi day of the week.
- Therefore, to a be weekly Sabbath.





- The weekly Sabbath is always on the seventh day of the week.
- Today is not the third or sixth day of the week.
- Therefore, today is the weekly Sabbath





- The weekly Sabbath is always on the seventh day of the week.
- Today is not the third with day of the week.
- Therefore, toda is the weekly Sabbath





- The weekly Sabbath is always on the seventh day of the week.
- Today is fourth day of the week.
- Therefore, today is the weekly Sabbath





- The weekly Sabbath is always on the seventh day of the week.
- Today is fourth day of the week.
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Objective truth: Truth based on the object and true for all. Not grounded in the desires of the subject.

Gravity

Right and wrong (morality)

Subjective truth: Truth based on the subject's perception.

My favorite food is...

My favorite color is...









The high temperature is warmer today than it was yesterday.





 Objective: The high temperature is warmer today than it was yesterday.





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- Bubblegum is better than other gums.





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Why does it matter – objective or subjective?

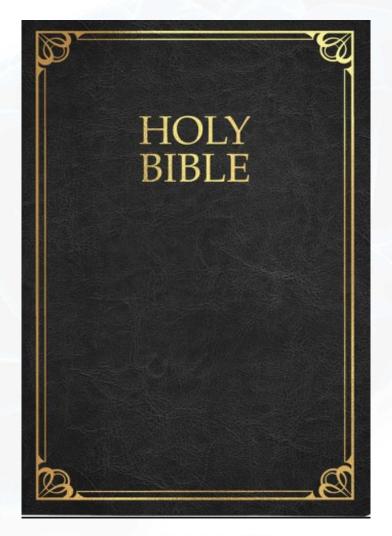
Knowing the difference will help determine the best approach to the argument.

- If the statement is subjective, disguised as objective, then find ways to show its subjectivity.
- If the statement is objective but false, dig into the 'facts' used to establish the conclusion.

Remember, most people think that matters of religion, faith and belief are 100% subjective, even by many that claim to be so.







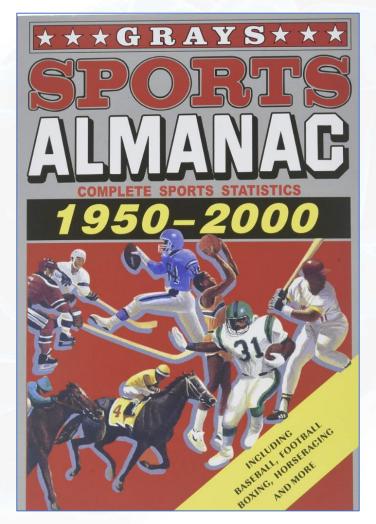






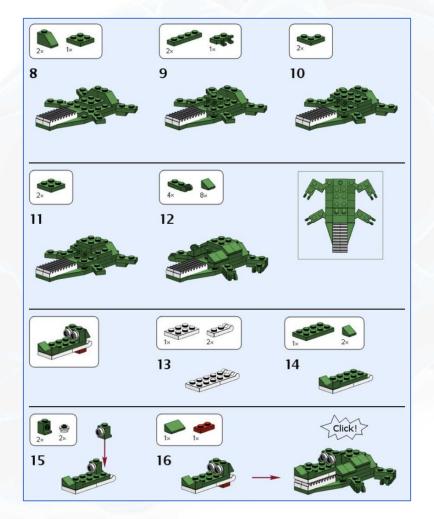






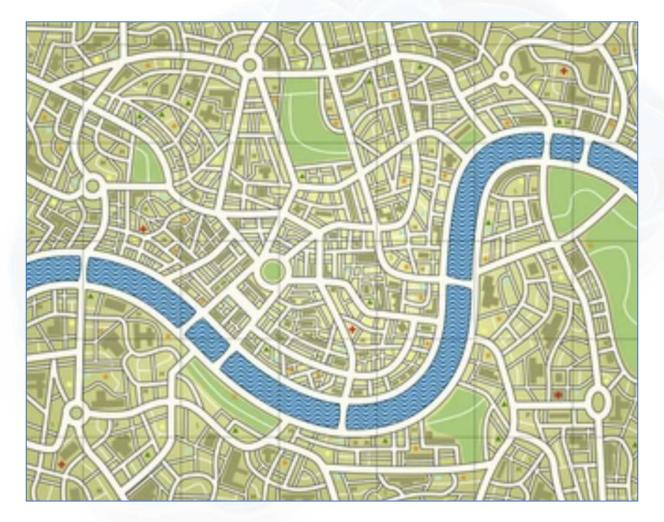
















$$A_1 = 1.815868 \cdot 10^{-4} \,^{\circ}\text{C}^{-1}$$

$$A_2 = 5.4583 \cdot 10^{-9} \,^{\circ}\text{C}^{-2}$$

$$A_3 = 3.4980 \cdot 10^{-11} \,^{\circ}\text{C}^{-3}$$

$$A_4 = 1.5558 \cdot 10^{-14} \,^{\circ}\text{C}^{-4}$$
.

The resulting density values [24] are given in table 2.

8.1.3 Density of alcohol-water mixtures

The density ϱ of air-saturated ethanol-water mixtures can be calculated according to the following formula as a function of the mass fraction p and the temperature t (acc. to ITS-90) [25]:

$$\varrho = a_1 + \sum_{k=2}^{12} a_k \cdot (p - 1/2)^{k-1} + \sum_{k=2}^{6} b_k \cdot (t - 20^{\circ}\text{C})^k +$$

raction p.

Mass	Density	Mass	Density	Mass	Density	Mass	Density
fraction		fraction		fraction		fraction	l (
8	kg/m ³						
0	998.20	26	960.14	51	911.54	76	853.17
1	996.31	27	958.61	52	909.31	77	850.74
2	994.48	28	957.04	53	907.06	78	848.30
3	992.73	29	955.43	54	904.81	79	845.84
4	991.02	30	953.78	55	902.54	80	843.38
5	989.38	31	952.09	56	900.27	81	840.91
6	987.78	32	950.36	57	897.99	82	838.42
7	986.23	33	948.58	58	895.70	83	835.92
8	984.73	34	946.77	59	893.40	84	833.41
9	983.27	35	944.92	60	891.09	85	830.87
10	981.85	36	943.03	61	888.78	86	828.32
11	980.46	37	941.10	62	886.46	87	825.75
12	979.09	38	939.15	63	884.13	88	823.15
13	977.76	39	937.16	64	881.79	89	820.53
14	976.44	40	935.14	65	879.44	90	817.88
15	975.13	41	933.10	66	877.09	91	815.20





Logical Fallacies

Reasoning that is logically invalid, or that undermines the logical validity of an argument.



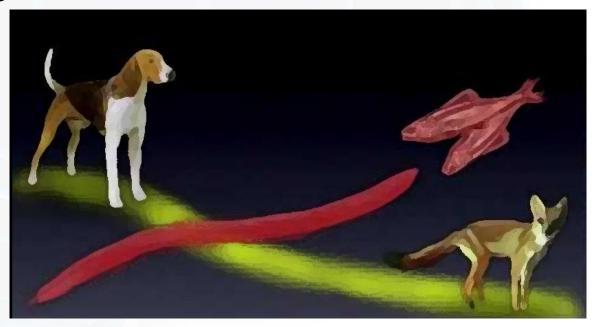
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	Logical Fallcies		
Red Herring	Appeal to Authority	Composition/Division	
Ad Hominem (Abusive)	The Fallacy Fallacy	No True Scotsman	
Ad Hominem (Circumstantial)	Slippery Slope	Bifurcation	
Ad Hominem (Tu quoque)	Special Pleading	Black-or-White	
Ad Hominem (Guilt by Association)	Loaded Question	False Dilemma	
Strawman	Burden of Proof	Anecdotal	
Personal Incredulity	Ambiguity	Middle Ground	
False Cause	Bandwagon	Begging the Question	
Appeal to Emotion			

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Red Herring

Redirect the argument to another issue. The red herring is a diversion of attention that abandons the original argument.







Strawman

Misrepresenting someone's argument to make it easier to disprove.

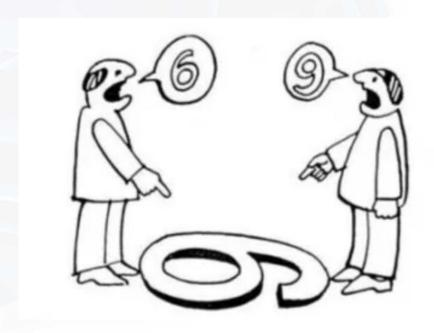






Ambiguity

Using a double meaning or ambiguity of language to mislead or misrepresent the truth.







Cognitive Bias

A leaning of the mind; inclination; not leaving the mind indifferent; prejudice.





Cognitive biases							
Bias blind spot	Projection bias	Dunning-Kruger					
Cognitive dissonance	Rosy retrospection	Attribution error					
Congruence bias	Sour grapes	Reactance					
Creeping normality	Hindsight bias	Backfire effect					
Expectation bias	Anchoring	Barnum effect					
Group attribution	Sunk cost	Cherry picking					
Hasty generalization	Availability heuristic	Cognitive inertia					
Ostrich effect	Curse of knowledge	Belief bias					
Outcome bias							





Sunk Cost

Clinging to things that have already cost you something.

For example, when you've invested time, money, or emotion into something, it hurts to let it go.







Reactance

Urge to do the opposite of what someone is

trying to make you do.







Cognitive Inertia

A general tendency for beliefs to endure even in the face of mounting evidence that suggests they are wrong.







Belief Bias

If a conclusion supports your existing beliefs, you'll rationalize anything that supports it.











Colossians 2:6-9

As ye have therefore received Christ Jesus the Lord, so walk ye in him: Rooted and built up in him, and stablished in the faith, as ye have been taught, abounding therein with thanksgiving. Beware lest any man spoil you through philosophy and vain deceit, after the tradition of men, after the rudiments of the world, and not after Christ. For in him dwelleth all the fulness of the Godhead bodily.



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ENJOY THE REST OF THE SABBATH

Part Six
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