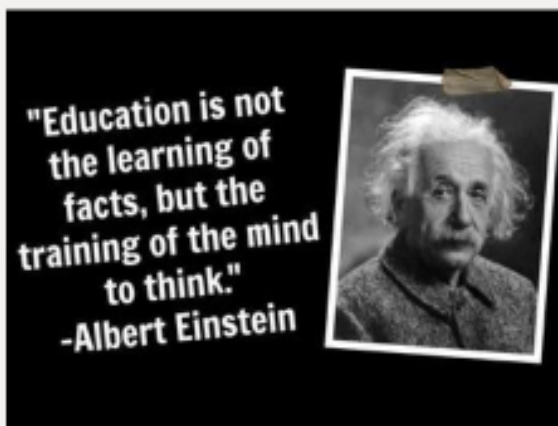


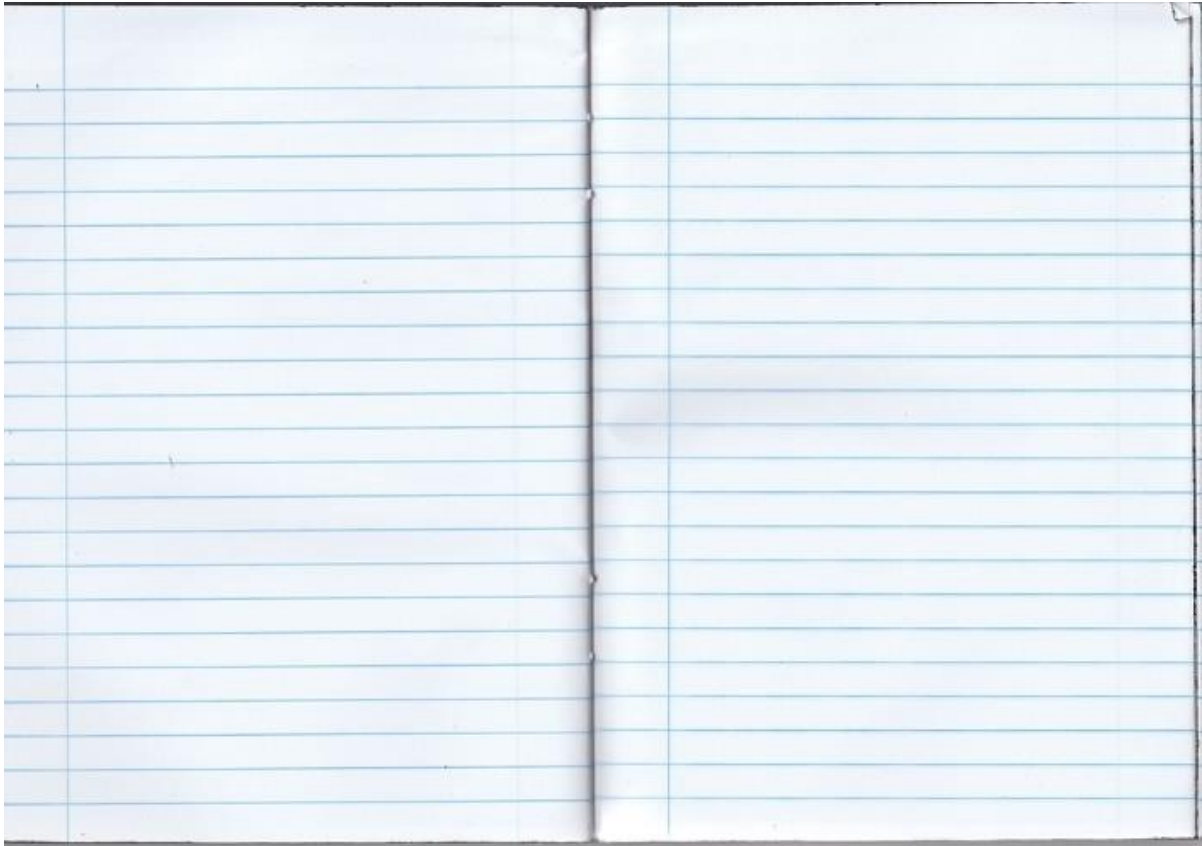
COGITO. ERGO ET EGO DISCO (I THINK. THEREFORE, I LEARN

TOM WOGAN



What is critical thinking?

In 1 minute write down as many words you can think of that you associate with critical thinking.



What are the 4 C's?

C

C

C -

T

C

Activities


Logic: Formal fallacies








1. If he had been planning murder, he would have taken out extra insurance on his wife. He did take out insurance on his wife.
2. If you are cheating on me, you will be out of the house a lot. You are out of the house a lot, so you must be cheating on me.
3. If I have the flu, then I have a sore throat. I have a sore throat. Therefore, I have the flu.
4. If had wanted to cut up the tree, he would have needed a big saw. Such a saw was found in his toolshed.
5. The bells you can hear now are always and only rung during a funeral. Someone must have died!
6. I think I need to give up smoking. But if I give up smoking, I'll get fat. I am fat! That was easy.
7. Einstein's General Relativity predicts that Mercury's orbit will shift in space, due to warping of space-time caused by the Sun's mass. Mercury's orbit has been observed to shift spatially. Therefore General Relativity is true.

Logic: Informal fallacies

Argumentum ad...

1. Antiquitam	2. Hominem	3. Ignorantiam	4. Lazarum
5. Nauseum	6. Novitam	7. Temperantiam	8. Verecundiam

- a.  False authority. It is a fallacy to suppose that an expert in one field can be assumed to be an expert in another.

- b.  Repetition. It is a fallacy to suppose that the more you repeat something the truer it becomes.
- c.  Age. It is a fallacy to suppose that because something is old it must be right and good.
- d.  Moderation. It is a fallacy to suppose that the moderate position is the correct and sound one.
- e.  Ignorance. It is a fallacy to suppose that our lack of knowledge about something allows us to infer the opposite case
- f.  Person. It is a fallacy to attack the arguer, not the argument.
- g.  Poverty. It is a fallacy to suppose that the poverty of the arguer enhances the case they are making.
- h.  Novelty. It is a fallacy to suppose that because something is new it is inherently better than the old.

Logic: Principle of Excluded Middle

A man called his doctor in the middle of the night. He described the pains his wife was having, diagnosed them as appendicitis (on-line), and told the doctor he was bringing the woman into emergency.

The doctor was much less concerned. He diagnosed the problem as stomach cramps, advised the man to give her an aspirin, and suggested that an appointment be made in the morning for an office visit.

The man persisted. Not used to having his medical judgment questioned, the doctor spoke authoritatively: "It cannot be her appendix," he declared. "I distinctly remember removing your wife's appendix eight years ago. And I have never heard of a woman having a second appendix!"

Guided discussion: Parole Board

Alan Jones: Guilty of murdering his wife by slowly poisoning her. Described by neighbours as a kind and gentle person. His children love him. His wife had lots of affairs and pushed him to the limit.

Janet Green: Found guilty of shoplifting for the tenth time. She is a homeless tramp who likes to spend the winter in prison. It is early December and the weather is very cold.

Miranda Morgan: A drug addict guilty of selling heroin to teenagers. Has already tried two unsuccessful drug treatment programmes. Has a two-year-old child who will have to go into care if she goes to jail.

Mick Brown: Guilty of vandalism and football hooliganism. 19 years old and below average intelligence. Aggressive and gets violent when drunk. One previous offence for drunken driving.

Cynthia Carter: English teacher guilty of smuggling her two cats into England. This is against quarantine regulations. The customs officers would like an example to be made of her.

Lateral Thinking

1. A man buys a new car and goes home to tell his wife. He goes the wrong way up a one-way street, nearly runs into 7 people, goes onto the sidewalk, and takes a shortcut through a park. A policeman sees all this and still doesn't arrest him. Why not?
2. You drive past a bus stop and see 3 people waiting for the bus: an old lady who is about to die, an old friend who saved your life, and your perfect partner. Knowing you can only have one passenger in your car, what would you do?
3. How much dirt is there in a hole 3 feet deep, 6 feet long, and 4 feet wide?
4. If it took 8 men 10 hours to build a wall, how long would it take 4 men to build the same wall?
5. How far can you walk into the woods?
6. Your friend says he can predict the exact score of every football game before it begins. He's right every time. How is that possible?

Anagrams

SPEAR	REWARD	LEAST	REINS	PASTE	MISTER	TRACES
PLATES	SPREAD	POST	PLAYER	NAME	SKATE	SNAP
LEAP	PARTIES	RATES	RESTRAIN	PASS	TEAM	EAST

Missing vowel

V R Y F I N X A M P L X C D S W H A T W X P C T