







A Neuron

axom

cell body

(soma)

dendrites

nucleus

Your brain is made of up of many brain <u>cells</u> called <u>neurons</u>. A neuron has three main parts -

- cell body (<u>soma</u>) with <u>nucleus</u>,
- <u>dendrites</u> which receive signals from many other cells,
- <u>axom</u> which sends a signal to other cells across a <u>synapse</u>. <u>Electrical signals</u> are passed down the <u>neural pathways</u> through the brain cells and transfer messages to all parts of the body.

A brain cell may become <u>damaged</u> by <u>disease</u> (eg. diabetes,

alzheimers), <u>lack of sleep</u> or <u>oxygen</u>, <u>over-eating</u>, <u>stress</u>, using <u>drugs</u> (such as <u>alcohol</u>, <u>tobacco</u>, <u>marijuana</u>, etc.) or <u>trauma</u> (eg. <u>injury</u> to the head). The dendrites are the parts

that are most often damaged.

This means that the brain does not work as well as it should, as it cannot pick up the messages that are being sent to the brain cell. We need to protect our brain in the same way that we protect our computers. We would not think of cutting the small <u>wires</u> and connections on the mother board of our computer, as we know that it would stop working. We also protect our

computers with

NGCPROT SNSYOUORBRAIINA CDORLEHONLOHOCLAORMC SMELOEUNABILITYR A N E N O T E R S A Y N O T O B A J G O UCDCEDAFUNCT ECTRICALSIGNALSADS ILSIHTGPROLASNNSL OONEEDTNOEATHEEOA NBAJRUIE T D R T R U G R S N ABUTSUSEA THBLUWAP TRPTOTSHIWNE LUUCMYAMUARTEANRSA L L C S O O D R U G S A X O M Y E O E L C N O X Y G E N J O Y L I S F E

Find the <u>red</u>, <u>underlined words</u> in the Word Find

above. Words may go across, down, diagonally

and may be backwards. When you have found

them, block out the letters, then take the

left-over letters to discover a secret message

with 20 words.

anti-<u>virus</u> protection
to stop programs (viruses) that would destroy its <u>ability</u> to <u>function</u>. So we need to make sure that we do not put things into our body which will cut the connections in the brain. We can use the "Say No to Drugs" choice as a way to stop anything from entering our bodies which could destroy the ability of the brain to work <u>well</u>.

Page 2

We wish each one of you a very blessed Christmas and pray that God will be with you as 2020 begins!

Help the shepherd to find Baby Jesus in the manger!



JOIN THE CLUB - SIGN THE PROMISE!

I CHOOSE not to drink alcohol, smoke, use or experiment with any other drug not prescribed by my doctor.

To join the Drug Free Kids club (for children aged 6 - 12), sign the promise and email your details (below) to:

webmaster@dfk.com.au

or post this cut out section to:

Drug Free Kids, c/- 32/22 Alton Road, COORANBONG NSW 2265

or for NZ

Drug Free Kids, PO Box 301817 ALBANY Auckland 0752

When you choose to join the club, always get your parent or guardian's permission as your names appear on our website and in this Fun Page.

Name of person who asked you to join DFK Club:

Signed:	••••••
Date:/	_/
First Name:	
Surname:	
I live at:	I
•••••	
Po	stcode:
I was born on:	i
Day/ Month	/ Year
PPY	You can now join Drug- free Youth.
Naomi T Esther W	We congratulate these members
Samarah P	listed on the left who turn 13 between August & October and we pray
Samuel	that you will continue to have happiness, success and the
Mikayla B	drug-free during your teenage years.
Jordan T	Other club members who celebrate a birthday during these months are listed on our webpage:

I'm Worth It - Teens Facebook group

www.drug-freeyouth.org

MPUTTER G

Find the two letters that have been attacked on each computer screen. Then use the letters to find the hidden advice. You may need to put the letters in the right order. Saying "No!" to alcohol is the best choice!

Did you enow that your brain computkr is still dkvkloping? Thk brain is not fully dkvklopkd until the agk of 21 or oldkr.

Whpn you bpcomp a tppnagpr, thp brain works to crpatps good eathways or connections and makes surp thpy work wpll.

Right nyw, oyur brain is grywing in size - making myre brain cells and increasing the cynnectiyns between them. Oyu have yver 86 billiyn nerve cells.

Alcohol acts like a comprteu viurs carsing seveue changes to the puefuontal and fuontal lobes of the buain and to the hippocamprs.

It causes majob glitches in youb rbain ry:

- Slowing ob shutting down youb rbain's activity.
- Deletang or dastortang messiges between the cells.
- Dimigang nerve connectaons.

Mennisg up the wirisa is the brais which cas lead to alcohol depesdesce or addictios.

Page 4

Other bmd effects include:

- Not being mble to plmn, amke decisions or process whmt needs to be done
- Having a poot memoty.
- Nor being able ro pay arrenrion - easily disrtacred
- Poot school wotk.

Hidden Advice Drinking alcohol knocks out the neural pathways, like a virus knocks out a computer! Don't forget to mail or email Welcome to the new DFk Puzzles, codes, poems or your club members from completed Fun Pages and put your name on your work to earn State updates: Giles & Heidi H. Points for awards. Hannah C, Why didn't the brain want Lemeki N to take a bath? mages ©www.123rf.com 1 & 4. /profile_tigatelu 2. /profile_rost9 ot Juem 1'nbib 10 3. /profile_natalia0103

/profile_vladischern