Windsor Hockey Skills Academy Reading: Teenagers and Sleep

Value: 20 marks

Curricular Competencies and Content

It is expected that students will:

- (Grade 10) demonstrate and understanding of health-related components of fitness
- (Grade 11) demonstrate an understanding of the prevention athletic injuries

(Grade 12) demonstrate the prevention of athletic injuries

Taken from: https://www.betterhealth.vic.gov.au/health/healthyliving/teenagers-and-sleep

Part A: Introduction

Sleep research suggests that a teenager needs between 9 and 10 hours of sleep every night. This is more than the amount a child or an adult needs. Yet most adolescents only get about seven or eight hours. Some get less. Regularly not getting enough sleep leads to chronic sleep deprivation. Chronic sleep deprivation can have dramatic effects on a teenager's life, including reduced academic performance at school as well as health issues. One recent US study found that lack of sleep was a common factor in teenagers who receive poor to average school marks. Even 30 minutes of extra sleep each night makes a difference. All recreational drugs (including alcohol, caffeinated drinks and cannabis) and chocolate can cause broken sleep.

Part B: Causes of Sleep Deprivation

Below is a list of some of the reasons why many teenagers may no tome of the reasons why many teenagers regularly do not get enough sleep:

- 1. <u>Hormonal Time Shift</u> puberty hormones shift the teenager's body clock forward by about one or two hours, making them sleepier <u>one to two hours later</u>. Yet, while the teenager falls asleep later, early school starts don't allow them to sleep in. This nightly 'sleep debt' may lead to chronic <u>sleep</u> deprivation.
- 2. <u>Hectic After School Schedule</u> homework, sport, part-time work and social commitments can cut into a teenager's sleeping time.
- 3. <u>Leisure Activities</u> the lure of stimulating entertainment such as television, the Internet and computer gaming can keep a teenager out of bed.
- 4. <u>Light Exposure</u> light cues the brain to stay awake. In the evening, lights from televisions, mobile phones and computers can prevent adequate production of melatonin, the brain chemical (neurotransmitter) responsible for sleep.
- 5. <u>Vicious Circle</u> insufficient sleep causes a teenager's brain to become more active. An overaroused brain is less able to fall asleep.
- 6. Social Attitudes in many western countries, keeping active is valued more than sleep.
- 7. <u>Sleep Disorder</u> sleep disorders, such as restless legs syndrome or sleep apnoea, can affect how much sleep a teenager gets.

Part C: Effects of Sleep Deprivation

The developing brain of a teenager needs between nine and 10 hours of sleep every night. The effects of chronic (ongoing) sleep deprivation may include:

- Concentration difficulties or mentally 'drifting off' in class
- Shortened attention span
- · Memory impairment
- · Poor decision making
- Lack of enthusiasm
- Moodiness and aggression
- Depression
- · Risk-taking behaviour
- Slower physical reflexes
- Clumsiness, which may result in physical injuries
- · Reduced sporting performance
- Reduced academic performance
- Increased number of 'sick days' from school because of tiredness
- Truancy (skipping classes)

Part D: Preventing Sleep Deprivation: Tips for Parents

Most parents understand the need to help their teenagers develop and maintain a healthy bedtime routine, which will enhance the quality of sleep for their adolescent. However, for some families, it can be a difficult and trying experience each and every night to try and get their teenager to go to bed at a constructive time. Below are some tips that teenagers may pass onto their parents to try and cooperatively plan and implement a bedtime routine that works for both teenagers and their parents. Try not to argue about bedtime. Instead, discuss the issue. Together, brainstorm ways to increase the nightly quota of sleep. Suggestions may include:

- Encourage an early night every <u>Sunday</u>. A late night on Sunday followed by an early Monday morning will make your child drowsy for the start of the school week.
- Decide together on appropriate time limits for any stimulating activity such as homework, television or computer games.
- Encourage restful activities during the evening, such as reading.
- Avoid early morning appointments, classes or training sessions for your child if possible.
- Schedule after-school commitments to free up time for rest and sleep.
- Assess weekly schedules together. Help them to trim activities if overcommitted.
- Encourage down time (no screens) right after school for a short period of time

Part E: Preventing Sleep Deprivation: Tips for teenagers

The typical teenage brain wants to go to bed late and sleep late the following morning, which is usually hard to manage. You may be able to adjust your body clock but it takes time. Suggestions include:

- Choose a relaxing bedtime routine; for example, have a bath and a hot milky drink before bed.
- Avoid loud music, homework, computer games or any other activity that gets your mind racing for about an hour before bedtime.
- Keep your room dark at night. The brain's sleep-wake cycle is largely set by light received through the eyes. Try to avoid watching television right before bed. In the morning, expose your eyes to lots of light to help wake up your brain.

- Do the same bedtime routine every night for at least four weeks to make your brain associate this routine with going to sleep.
- Start your bedtime routine a little earlier than usual (for example, 10 minutes) after four weeks. Do this for one week.
- Add an extra 10 minutes every week until you have reached your desired bedtime.
- Avoid staying up late on the weekends. Late nights will undo your hard work.
- Remember that even 30 minutes of extra sleep each night on a regular basis makes a big difference. However, it may take about six weeks of extra sleep before you feel the benefits.

Part F: Other Issues

If lack of sleep is still a problem despite your best efforts, suggestions include:

- Assess your sleep hygiene. For example, factors that may be interfering with your quality of sleep include a noisy bedroom, a lumpy mattress or the habit of lying awake and worrying.
- Consider learning a relaxation technique to help you wind down in readiness for sleep.
- Avoid having any food or drink that contains caffeine after dinnertime. This includes coffee, tea, cola drinks and chocolate.
- Avoid recreational drugs (including alcohol, tobacco and cannabis) as they can cause you to have broken and poor quality sleep.
- See your doctor if self-help techniques don't increase your nightly sleep quota.

Part G: Getting Help

- Family doctor
- Sleep Disorder Program, UBC: 604.822.7606

Part H: Summary of the Important Points

- Sleep research suggests that a teenager needs between nine and 10 hours of sleep every night.
- Chronic sleep deprivation can have dramatic effects on a teenager's life, including reduced academic performance at school.
- Even 30 minutes of extra sleep each night makes a difference.
- All recreational drugs (including alcohol, caffeinated drinks and cannabis) and chocolate can cause broken sleep.

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Part A:	: Introduction Complete the following section by filling in the blanks with the coafter reading the article. (1/2 mark each)	rrect word or words
	Sleep research suggests that a teenager needs between and every night.	hours of sleep
2.	This is more than the amount a child or an needs.	
3.	Yet most adolescents only get about or hours. Some get	tless.
4.	One recent US study found that lack of sleep was a common factor in	teenagers who receive
	poor to average	
5.	Even minutes of extra sleep each night makes a difference	3.
6.	All recreational drugs (including alcohol, caffeinated drink can cause broken sleep.	and cannabis) and
Part B:	: Causes of Sleep Deprivation Complete the following section by answering the questions in a fewith information form the reading.	ew words or sentences
7.	Explain the term Hormonal time Shift as it is explained in the article.	(2 marks)
8.	Explain why early school starting times may not be a good idea for Hormonal Time Shift in your answer) (2 marks)	teenagers (use the term
9.	The article discusses " the lure of stimulating entertainment" List of entertainment suggested by the article. (1 mark)	st two of the three types

Windsor Hockey Skills Academy

Name:

	which brain chemical? Name the bro	s the brain to stay awake by preventing the production of ain chemical. (1 mark)
11.	List the two sleep disorders mention	ned in Section B. (1 mark)
	1	
	2	
Part (C: Effects of Sleep Deprivation Complete the following section reading. (4 marks)	by completing the chart below from the material in the
12.	two of these effects that you believ	cts of Sleep Deprivation. In the space provided below, list we can and will affect an athlete's performance the most. In the example, which this may occur as a result of sleep by
	Effects of Sleep Deprivation	Consequences to an Athlete of Sleep Deprivation
	example: Memory Impairment	*athlete may not remember plays or positional responsibilities during competition
	1.	
	2.	
Part 13.	In your opinion, which two "Tips fo they are helping their teenagers d	oy list two tips for parents in the appropriate space below. or Parents" would be most helpful for parents to know when eal with creating healthy sleep habits? (2 marks)
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13.	Answer the following question be In your opinion, which two "Tips for they are helping their teenagers do 1	or Parents" would be most helpful for parents to know when eal with creating healthy sleep habits? (2 marks) Tips for Teenagers
13.	In your opinion, which two "Tips for they are helping their teenagers do 1	or Parents" would be most helpful for parents to know when eal with creating healthy sleep habits? (2 marks) Tips for Teenagers by listing two tips for teenagers in the appropriate space below.
13.	In your opinion, which two "Tips for they are helping their teenagers do 1. 2. E: Preventing Sleep Deprivation: Answer the following question to the properties of the prope	or Parents" would be most helpful for parents to know when eal with creating healthy sleep habits? (2 marks) Tips for Teenagers by listing two tips for teenagers in the appropriate space below.

Other Issues
Answer the following question by list tips for teenagers in the appropriate space below.

15. In your opinion, which of the other point listed in Section F would be most helpful to you? (1 mark)

Part G: Getting Help

Answer the following question with a word or a few words in the space provided.

16. Other than your family doctor, what other option does the article provide for students to call if they are in need of help with sleep related issues? Provide the name of the organization and the phone number. (1 mark)