

UNIT A: LESSON 7

LEARNING TARGETS

INSTRUCTIONS FOR STUDENTS:		
Listen as your teacher reviews the standards and objectives. Your teacher will call on		
an individual or pair to explain what they mean.		
Learning Target:	<i>determine</i> – decide	
I can determine the main ideas and supporting details in the	<i>main</i> – central or	
article "The Digital Revolution and Adolescent Brain	most important	
Evolution."	supporting details –	
	helping ideas	
Learning Target:	<i>article</i> – a short text	
I can analyze the basic structure of a complex sentence.	in a newspaper or	
rear analyze the basic structure of a complex sentence.	magazine	
	<i>analyze</i> – study	
	something and	
	explain it	
	<i>structure</i> – the way	
	parts of something	
	are joined together	
	<i>complex</i> – something	
	that has many	
	different parts	

ACQUIRING AND USING VOCABULARY

INSTRUCTIONS FOR STUDENTS:

Your teacher will pre-teach several key words. Use your glossary for the rest of the lesson to find meanings for words you don't know. Words that are **bolded** in the text and word banks can be found in the glossary. The glossary is located in the Appendix at the end of the lesson.

THINKING LOG

INSTRUCTIONS FOR STUDENTS:

Your teacher will ask you a guiding question that you will think about as your teacher reads the text aloud to you. As your teacher reads the text aloud, listen and follow along in your text. After the text has been read aloud, work with a partner to reread the text and answer the supplementary questions. Use your glossary to help you. Your teacher will review the answers with the class. You will then discuss the guiding question(s) with your teacher and the class. Finally, you will complete a written response to the guiding question(s).

<u>GUIDING QUESTION</u>: Why is the social brain so important for humans? Why might video games threaten the development of social skills humans need for survival?

THE DIGITAL REVOLUTION AND ADOLESCENT BRAIN EVOLUTION

EXCERPT 5: **DIGITAL** REVOLUTION – SOCIAL

The human brain is a social brain. Our ability to gauge the **moods** and **intentions** of others, to **detect** the truth or **falsehood** of their **communications**, to **discern** friend from foe, and to form alliances is among its most **complex** and important **tasks**. These skills are of premier importance to fulfill our biological imperatives of staying alive (through the protection of the group) and **reproducing or having children**. From this perspective, it is no wonder that so much of our brain is dedicated to **social cognition**.

The central hub of circuitry related to **social skills** is the late-maturing, highly plastic prefrontal cortex. Like any **complex** skills, mastery **requires** lots of practice. Much of the discernment **relies** on exquisitely **subtle** detection of **nonverbal cues**, such as slight changes in eye gaze, millisecond differences in speech timing, synchrony of response to shared environmental stimuli, breathing patterns, body **posture**, touch, **odors**, and so forth. Will the increasing reliance on **digital** social interactions hinder exposure to the "real-world" experiences necessary to **master** these most important skills?

WORD BANK:			
alive	environmental	interact	social skills
alliances	eye gaze	lying	speech
body posture	face-to-face	moods	survive
breathe	foe	odor	truth
cues	friend	prefrontal cortex	
detection	intentions	reproduce	

SUPPLEMENTARY QUESTIONS:		
1. What is one of the most complex and important tasks of the brain?		
One of the most important tasks of the brain is using		
2. What four social tasks does the author mention?		
The author mentions the following four social tasks:		
A. our ability to notice the and of other people (what		
other people are feeling or thinking);		
B. our ability to tell whether someone is telling the or		
C. our ability to tell if someone isor(enemy)		
D. our ability to form (be partners) with other people		
3. Why is the social brain so important?		
The social brain is so important because social skills help us (have		
children) and stay		
1 What is the control bub (command contex) of the brain for cooid skills?		
<i>4.</i> What is the central hub (command center) of the brain for social skills? The control hub for social skills is the plastic		
The central hub for social skills is the plastic		
5. Does the prefrontal cortex mature early or late?		
It matures(early/late).		
(curly/luce).		
6. Does having complex social skills take practice?		
(Yes, it does/No, it doesn't).		
7. What do complex social skills rely on?		
Social skills rely on of, or noticing, nonverbal, or signals.		
8. What are some examples of nonverbal cues?		
Examples of nonverbal cues include:		
A. slight changes in (position of eyes)		
B. small differences intiming		
C. how people react to shared stimuli		
D. how people		
E. people's (how a person holds his or her body)		
F. touch		
G(smell)		

9. The author asks if so much reliance on social interaction through video games will prevent people from experiencing "real-world" experiences with people. What does the author worry about?

The author worries about people who ______mainly through video games instead of ______. These people may not develop the important and complex ______ they need to _____.

RESPONSE TO GUIDING QUESTION(S):

Why is the social brain so important for humans? Why might video games threaten the development of social skills humans need for survival?

Response:

NEUROLOGIST NOTEBOOK

INSTRUCTIONS FOR STUDENTS:

Work with a partner. Use your neurologist notebook to write down key, or important, information from the text. You will write down main ideas and some details, or specific information, about each main idea. You can use information from your Thinking Log. Some information is already filled in for you.

WORD BANK:

addictive, breathing, **cognition**, **complex**, **digital**, enemy, eye, feelings, friend, important, increasing, **master**, **posture**, practice, **social skills**, **subtle**, **survive**, truth, video games

Summary from yesterday:

The amount of time teens spend on ______is _____. These may be

nay be	·
Main idea:	Supporting details:
cognition is one of the brain's most tasks.	We use cognition to understand other people's, whether they are telling the , and whether they are a or These are importantthat help us
Main idea:	Supporting details:
We must social skills to them.	Socialskills are very These skills include noticing many, or small, things likegaze,patterns, and body These skills require, or need, a lot of
Concluding question: Can we spend too much time tosocial	playingand usingdevices

FUNCTIONAL ANALYSIS

INSTRUCTIONS FOR STUDENTS:

Work with your class to analyze an important sentence(s) from the text.

- Every sentence has someone or something that *does* something. First you determine this *who or what*.
- Every sentence has something that they *do or did*. Figure that part out next. Now you have the most important parts of the sentence in place.
- Then you will figure out what they did the action *to or for*.
- Finally, you will write the descriptive details.
- Write your answers in the spaces below.
- When you are done, write the sentence again in your own words.

You may want to use definitions from the glossed text in the sections above.

Functional Analysis:

Our ability to gauge the moods and intentions of others, to detect the truth or falsehood of their communications, to discern friend from foe, and to form alliances is among its most complex and important tasks.

WHAT: Our <u>ability</u>		
DETAIL (To What): to gauge the	and	of others
DETAIL (To What): to detect the	0r	of their
DETAIL (To What): to discern	from	
DETAIL (To What): and to form		
WHAT HAPPENED (Action):		
WHAT: among its [the brain's]		
What the sentence says:	My own words:	
Our ability		
to gauge the moods and intentions of others	to tell	
to detect the truth or falsehood of their communications		
to discern friend from foe	to tell	
and to form alliances	and to	

is	is	
among its most complex and important		
tasks	the brain's	
Write the sentence in your own words and then explain it to your partner.		
to		
to		
to		
and to		
is		
	·	

EXIT TICKET

INSTRUCTIONS FOR STUDENTS:

This graphic organizer will help you keep track of information about the brain for all of the readings. Each day you will write down new information from each reading. Today we will write about social cognition skills.

- First, write what we need social cognition skills for.
- Next, the types of social cognition skills.
- Then write what we need to do to develop social cognition skills.
- Finally, write why it might dangerous for teens to spend too much time using digital devices (*so what*?).

WORD BANK:	WORD BANK:		
breathing, body po	breathing, body posture, eye gaze, feelings, friend, practice, small, truth		
What we need	We need social cognition to understand other people's		
social cognition	, whether they are telling the, and		
for	whether they are our		
Types of social cognition skills	Social cognition skills including noticingthings, like, and		
What we need to do	We must		
So what?	[Write why it might be dangerous for teens to spend too much time using digital devices:]		

Appendix: Glossary

Word	Definition	Example
addictive	something that causes	For some people drinking alcohol
	addiction (you cannot stop	is addictive.
	using it)	
cognition	how the brain processes, or	From this perspective, it is no
	understands information	wonder that so much of our brain
		is dedicated to social cognition .
communication	how we share messages,	Our ability to detect truth or lies in
	information, or ideas (like	communication is a complex and
	talking)	important task.
complex	not simple	Our ability to gauge the moods
		and intentions of others,
		to detect the truth or falsehood of
		their communications, to discern
		friend from foe, and to form
		alliances is among its
		most complex and
		important tasks.
detect	discover or notice	Our ability to detect truth or lies in
(detection)		communication is a complex and
		important task.
digital	electronic	Will the increasing reliance on
		digital social interactions hinder
		exposure to the "real-world"
		experiences necessary to master
		these most important skills?
discern	tell apart	Our ability to discern friend from
		foe is a complex and important
		task.
falsehood	Lie	Our ability to detect the truth or
		falsehood of what people say is a
		complex and important task.
hinder	stop something, or get in the	Will the increasing reliance on
	way of it happening	digital social interactions hinder
		exposure to the "real-world"
		experiences necessary to master
		these most important skills?

Word	Definition	Example
intention	motive; what you are thinking	Our ability to gauge the moods
	or planning regardless of your	and intentions of others is a
	actions	complex and important task.
master	learn something very well or	Will the increasing reliance on
	perfectly	digital social interactions hinder
		exposure to the "real-world"
		experiences necessary to master
		these most important skills?
mood	a temporary feeling or	Our ability to gauge the moods
	emotion	and intentions of others is a
		complex and important task.
nonverbal cue	a gesture or action that gives	Much of the discernment relies on
	information	detection of nonverbal cues , such
		as slight changes in eye gaze,
		breathing patterns, body posture,
		and so forth.
odor	a smell	Much of the discernment relies on
		detection of nonverbal cues, such
		as body posture, touch, odors , and
		so forth.
posture	the way you hold or carry	Much of the discernment relies on
	your body	detection of nonverbal cues, such
		as slight changes in eye gaze,
		breathing patterns, body posture ,
		and so forth.
require	need	Developing social skills requires
		lots of practice.
rely	depend on something	The increasing reliance on digital
(reliance)		social interactions could hinder
		exposure to the "real-world"
		experiences.
social cognition	how the brain processes, or	From this perspective, it is no
	understands, information	wonder that so much of our brain
	about other people and social	is dedicated to social cognition .
	situations, or situations where	
	people are with each other	
social skill	how well you interact with	Developing social skills requires
	other people	lots of practice.

Word	Definition	Example
subtle	not obvious; difficult to see or	Much of the discernment relies on
	notice	exquisitely subtle detection of
		nonverbal cues, such as slight
		changes in eye gaze, millisecond
		differences in speech timing,
		synchrony of response to
		shared environmental stimuli,
		breathing patterns, body posture,
		touch, odors, and so forth.
survive	continue to live	These people may not develop the
		important and complex social
		skills they need to survive.
task	a job; something you need to	Our ability to detect truth or lies in
	get done	communication is a complex and
		important task .