UNIT 4: SENSATION AND PERCEPTION

OBJ	SIC PRINCIPLES OF SENSATION AND PERCEPTION ECTIVE 1: Contrast sensation and perception, and explain	11.	. Some entrepreneurs claim that exposure to "below threshold," orSUBLIMINAL, stimuli can be
	difference between bottom-up and top-down processing.		persuasive, but their claims are probably unwarranted.
1.	The perceptual disorder in which a person has lost the	12.	. Some weak stimuli may trigger in our sensory receptors a
	ability to recognize familiar faces is		response that is processed by the brain, even though the
	PROSOPAGNOSIA		response doesn't cross the threshold into
2.	The process by which we detect physical energy from the		CONSCIOUS awareness.
	environment and encode it as neural signals is	13.	. Under certain conditions, an invisible image or word can
	SENSATION The process by which sensations		PRIME into a person's response to a later question.
	are organized and interpreted isPERCEPTION		This illustrates that much of our information processing
3.			occursAUTOMATICALLY
	up, is calledBOTTOMUP	14.	. The minimum difference required to distinguish two
	PROCESSING Perceptual analysis, which		stimuli 50 percent of the time is called the
	works from our experience and expectations is called		DIFFERENCETHRESHOLD Another
	TOPDOWN		term for this value is theJUST
	PROCESSING		NOTICEABLEDIFFERENCE (JND)
	FROCESSING	15	
^ DI	IFOTIVE Or Discuss have seen necessarile as any discussed and	13.	. The principle that the difference threshold is not a
	ECTIVE 2: Discuss how our perceptions are directed and		constant amount, but a constant proportion, is known as
	ited by selective attention, noting how we may or may not		WEBER'SLAW The proportion
	affected by unattended stimuli.	4.0	depends on theSTIMULUS
4.	When we focus our conscious awareness on a particular	16.	. After constant exposure to an unchanging stimulus, the
	stimulus, we are usingSELECTIVE		receptor cells of our senses begin to fire less vigorously;
	ATTENTION		this phenomenon is calledSENSORY
	Your ability to attend to only one voice among many is		ADAPTATION
	called theCOCKTAIL PARTY		
	EFFECT Failing to see a visible object when our	<u>VIS</u>	<u>SION</u>
	attention is directed elsewhere is called	OB.	JECTIVE 4: Describe the characteristics of visible light, and
	INATTENTIONALBLINDNESS	exp	plain the process by which the eye converts light energy
6.	When researchers distracted participants with a counting	inte	o neural messages.
	task, the participants displayedINATTENTIONAL		Stimulus energy isTRANSDUCED (transformed)
	BLINDNESS and failed to notice a gorilla-suited		intoNEURAL messages by our eyes.
	assistant who passed through. Two specific forms of this	2.	The visible spectrum of light is a small portion of the
	phenomenon areCHANGEBLINDNESS		larger spectrum ofELECTROMAGNETIC energy.
	andCHOICE BLINDNESS Another	3	The distance from one light wave peak to the next is
	result of distraction involves not noticing that different	٥.	calledWAVELENGTH This value determines the
	people are speaking, calledCHANGE		wave's color, orHUE
	DEAFNESS	1	The amount of energy in light waves, or
7	Some stimuli are so powerful they demand our attention,	٦.	INTENSITY, is determined by a wave's
٠.	·		
	causing us to experiencePOPOUT		AMPLITUDE, or height, influences the
.			BRIGHTNESS of a light.
thre	ECTIVE 3: Distinguish between absolute and difference	5.	Light enters the eye through theCORNEA, then
	esholds, and discuss whether we can sense and be	5.	passes through a small opening called the
affe	esholds, and discuss whether we can sense and be ected by subliminal or unchanging stimuli.	5.	passes through a small opening called thePUPIL; the size of this opening is controlled by
affe	esholds, and discuss whether we can sense and be ected by subliminal or unchanging stimuli. The study of relationships between the physical		passes through a small opening called thePUPIL; the size of this opening is controlled by the coloredIRIS
affe	esholds, and discuss whether we can sense and be ected by subliminal or unchanging stimuli. The study of relationships between the physical characteristics of stimuli and our psychological		passes through a small opening called thePUPIL; the size of this opening is controlled by the coloredIRIS By changing its curvature, theLENS can focus
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affe 8.	esholds, and discuss whether we can sense and be ected by subliminal or unchanging stimuli. The study of relationships between the physical characteristics of stimuli and our psychological		passes through a small opening called thePUPIL; the size of this opening is controlled by the coloredIRIS By changing its curvature, theLENS can focus
affe 8. 9.	esholds, and discuss whether we can sense and be ected by subliminal or unchanging stimuli. The study of relationships between the physical characteristics of stimuli and our psychological experience of them isPSYCHOPHYSICS	6.	passes through a small opening called thePUPIL; the size of this opening is controlled by the coloredIRIS By changing its curvature, theLENS can focus the image of an object onto theRETINA, the
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affe 8. 9.	esholds, and discuss whether we can sense and be ected by subliminal or unchanging stimuli. The study of relationships between the physical characteristics of stimuli and our psychological experience of them isPSYCHOPHYSICS TheABSOLUTETHRESHOLD refers to the minimum stimulation necessary for a stimulus to be	6. 7.	passes through a small opening called thePUPIL; the size of this opening is controlled by the coloredIRIS By changing its curvature, theLENS can focus the image of an object onto theRETINA, the light-sensitive inner surface of the eye. The process by which the lens changes shape to focus

alertness all influence the detection of a stimulus.

9.	The neural signals produced in the rods and cones	17. Other brain-damaged people may demonstrate
	activate the neighboringBIPOLAR cells, which	BLINDSIGHT by responding to a stimulus that
	then activate a network ofGANGLION cells. The	is not consciously perceived.
	axons of ganglion cells converge to form the	• •
	OPTICNERVE, which carries the	OBJECTIVE 7: Explain how the Young-Helmholtz and opponent-
	visual information to theBRAIN	process theories help us understand color vision.
10	Where this nerve leaves the eye, there are no receptors;	18. An object appears to be red in color because it
±υ.	thus, the area is called theBLIND	REFLECTS (REJECTS) the long wavelengths of
	SPOT	red and because our mentalCONSTRUCTION of
11.	Most cones are clustered around the retina's point of	the color.
	central focus, called theFOVEA, whereas	19. One out of every 50 people is color deficient; this is
	the rods are concentrated in more	usually a male because the defect is genetically
	PERIPHERAL regions of the retina. Many cones	SEXLINKED
	have their ownBIPOLAR cells to communicate	20. According to theYOUNG
	with the visual cortex.	HELMHOLTZTRICHROMATIC theory, the
12 .	It is theCONES (rods/cones) of the eye that	eyes have three types of color receptors: one reacts most
	permit the perception of color, whereasRODS	strongly toRED, one toGREEN,
	(rods/cones) enable black-and-white vision.	and one toBLUE
13.	Unlike cones, in dim light rods areSENSITIVE	21. After staring at a green square for a while, you will see
_0.	(sensitive/insensitive). Adapting to a darkened room will	the color red, itsOPPONENT color, as an
	take the retina approximately minutes.	AFTERIMAGE
	take the retina approximately20 minutes.	22. Hering's theory of color vision is called the
OB	IFOTIVE E. Discuss the different levels of presenting that	
	IECTIVE 5: Discuss the different levels of processing that	OPPONENTPROCESS theory.
	ur as information travels from the retina to the brain's	According to this theory, after visual information leaves
cor		the receptors it is analyzed in terms of pairs of opposing
14.	Visual information percolates through progressively more	colors:RED versusGREEN,
	ABSTRACT levels. In the brain, it is routed by	YELLOW versusBLUE, and
	theTHALAMUS to the cortex. Hubel and Wiesel	BLACK versusWHITE
	discovered that certain neurons in the occipital lobe's	
	VISUAL CORTEX respond only to	Summarize the two stages of color processing.
	specific features of what is viewed. They call these	IN THE FIRST STAGE OF COLOR PROCESSING, THE RETINA'S
	neuronsFEATUREDETECTORS	RED, GREEN AND BLUE CONES RESPOND IN VARYING
1 5.	Feature detectors pass their information to higher-level	DEGRESS TO DIFFERENT COLOR STIMULI, AS SUGGESTED BY
	cells in the brain, which respond to specific visual scenes.	THE THREE-COLOR THEORY. THE RESULTING SIGNALS ARE
	Research has shown that in monkey brains such cells	THEN PROCESSED IN THE THALAMUS BY RED-GREEN, BLUE-
	specialize in responding to a specificGAZE,	YELLOW, AND BLACK-WHITE OPPONENT-PROCESS CELLS,
	HEADANGLE, POSTURE,	WHICH ARE TURNED "ON" BY ONE WAVELENGTH AND
	orBODY MOVEMENT In many	TURNED "OFF" BY ITS OPPONENT.
	cortical areas, teams of cells (SUPERCELL	
	CLUSTERS) respond to complex patterns.	HEARING
		OBJECTIVE 8: Describe the auditory process, including the
		stimulus input and the structure and function of the ear.
		 The stimulus for hearing, orAUDITION is sound
		waves, created by the compression and expansion of
OB.	ECTIVE 6: Define <i>parallel processing,</i> and discuss its role	AIRMOLECULES
in v	isual information processing.	2. The amplitude of a sound wave determines the sound's
16	. The brain achieves its remarkable speed in visual	LOUDNESS
	perception by processing several subdivisions of a	3. The frequency of a sound wave determines the
	stimulus	PITCH we perceive.
	(simultaneously/sequentially). This procedure, called	4. Sound energy is measured in units called
	, may	DECIBELS The absolute threshold for hearing is
	explain why people who have suffered a stroke may lose	arbitrarily defined asZERO such units.
	just one aspect of vision.	5. The ear is divided into three main parts: the
	just one aspect of vision.	OUTER ear, theMIDDLE ear and the
		INNER ear.

6.	The outer ear channels sound waves toward the	biological changes linked withAGING and
	EARDRUM, a tight membrane that then vibrates.	prolonged exposure to ear-splitting noise or music.
7.	The middle ear transmits the vibrations through a piston	
	made of three small bones: theHAMMER,	OBJECTIVE 11: Describe how cochlear implants function, and
	ANVIL, andSTIRRUP	explain why Deaf culture advocates object to these devices.
8.	In the inner ear, a coiled, bony, fluid-filled tube called the	17. An electronic device that restores hearing among nerve-
	COCHLEA contains the receptor cells for hearing.	deafened people is aCOCHLEAR
	The incoming vibrations cause theOVAL	IMPLANT
	WINDOW to vibrate the fluid that fills the tube,	18. Advocates ofDEAFCULTURE object
	which causes ripples in theBASILAR	to the use of these implants onCHILDREN
	MEMBRANE, bending theHAIR	before they have learned toSPEAK The
	CELLS that line its surface. This movement	basis for their argument is that deafness is not a
	triggers impulses in the adjacent nerve fibers that	DISABILITY
	converge to form the auditory nerve, which carries the	19. Sign languageIS (is/is not) a complete
	neural messages (via the THALAMUS) to the	language,WITH (with/without) its own
		grammar, syntax, and semantics. People who lose one
9	The brain interprets loudness from theNUMBER	channel of sensation (such as hearing) SEEM TO
٥.	of hair cells a sound activates.	(seem to/do not seem to) compensate with a slight
	of half cells a south activates.	enhancement in their other sensory abilities.
ΛĐ	IECTIVE Q. Contract place and frequency theories and	20. (Close-Up) Deaf children raised in a household where sign
	JECTIVE 9: Contrast place and frequency theories, and place and place place.	
		language is used express higherSELF-ESTEEM and feel moreACCEPTED
10.	One theory of pitch perception proposes that different	reer moreACCEPTED
	pitches activate different places on the cochlea's basilar	OTHER CENCEC
	membrane; this is thePLACE theory. This	OTHER SENSES
	theory has difficulty accounting for how we hear	OBJECTIVE 12: Describe the sense of touch, and distinguish
	LOWpitched sounds, which do not have such	between kinesthesis and the vestibular sense.
	localized effects.	1. The sense of touch is a mixture of at least four senses:
11.	A second theory proposes that the frequency of neural	PRESSURE,WARMTH,
	impulses, sent to the brain at the same frequency as	COLD, andPAIN Other skin
	sound waves, allows the perception of different pitches.	sensations, such as tickle, itch, hot, and wetness are
	This is theFREQUENCY theory. This theory fails	VARIATIONS of the basic ones.
	to account for the perception ofHIGH	2. TheTOPDOWN influence on touch is
	pitched sounds because individual neurons cannot fire	illustrated by the fact that a self-produced tickle produces
	faster than1,000 times per second.	less activation in theSOMATOSENSORY
12.	For the higher pitches, cells my alternate their firing to	CORTEX than someone else's tickle. This
	match the sound's frequency, according to the	influence is also seen in theRUBBER
	VOLLEY principle.	HAND illusion.
		3. The system for sensing the position and movement of
OB.	JECTIVE 10: Describe how we pinpoint sounds, and	body parts is calledKINESTHESIS The receptors
con	trast the two types of hearing loss.	for this sense are located in theTENDONS,
1 3.	We locate a sound by sensing differences in the SPEED	JOINTS,BONES, andEARS,
	(TIMING) andINTENSITY with which it reaches	as well as in your skin.
	our ears.	4. The sense that monitors the position and movement of
14.	A sound that comes from directly ahead will be	the head (and thus the body) is theVESTIBULAR
	HARDER (easier/harder) to locate than a	SENSE The receptors for this sense are
	sound that comes from off to one side.	located in theSEMICIRCULARCANALS
15.	Problems in the mechanical conduction of sound waves	andVESTIBULARSACS of the inner ear.
	through the outer or middle ear may cause	
	CONDUCTION HEARING	OBJECTIVE 13: State the purpose of pain, and describe the
	LOSS	biopsychosocial approach to pain.
16	Damage to the cochlea's hair cell receptors or their	5. People born without the ability to feel pain may be
_0.	associated auditory nerves can cause	unaware of experiencing severeINJURY More
	SENSIONEURAL hearing loss. It may be	numerous are those who live withCHRONIC pain in
	caused by disease, but more often it results from the	the form of persistent headaches and backaches, for
	caused by discuse, but more often it results from the	example.
		caumpic.

	Pain is a property of ourPHYSIOLOGY as well as ourEXPERIENCES andATTENTION, and	15	In a few rare individuals, the senses become joined in a phenomenon calledSYNAESTHESIA
		16	
_	our surroundingCULTURE	10	Like taste, smell, orOLFACTION, is a
	The pain systemIS NOT (is/is not) triggered by one specific type of physical energy. The body has		CHEMICAL sense. ThereIS NOT (is/is not) a distinct receptor for each detectable odor.
	specializedNOCICEPTORS that detect hurtful	17	. Odors are able to evoke memories and feelings because
	stimuli.	Τ/.	there is a direct link between the brain area that gets
	Melzack and Wall have proposed a theory of pain called		information from the nose and the ancient
	theGATECONTROL theory, which		LIMBIC centers associated with memory and
	proposes that there is a neurologicalGATE in		emotion.
	theSPINAL CORD that blocks pain		emotion.
	signals or lets them through. It may be opened by	DE	RCEPTUAL ORGANIZATION
	activation ofSMALL (small/large) nerve fibers		JECTIVE 15: Describe Gestalt psychology's contribution to
	and closed by the activation ofLARGE		r understanding of perception, and identify principles of
	(small/large) fibers or by information from the		rceptual grouping in form perception.
_	BRAIN	1.	According to theGESTALT school of
	Pain-producing brain activity may be triggered with our		psychology, we tend to organize a cluster of sensations
	withoutSENSORY INPUT	_	into aWHOLE, or form.
10.	A sensation of pain in an amputated leg is referred to as	2.	When we view a scene, we see the central object, or
	PHANTOMLIMB Another		FIGURE, as distinct from surrounding stimuli, or
	example isTINNITUS, experienced by people who	2	theGROUND
	have a ringing-in-the-ears sensation.	3.	Proximity, similarity, closure, continuity, and
1:-4	construction control to above one of the bookle cons		connectedness are examples of Gestalt rules of
	some pain control techniques used in health care		GROUPING
	ations.	4.	The principle that we organize stimuli into smooth,
	N CONTROL TECHNIQUES INCLUDE DRUGS, SURGERY,		continuous patterns is calledCONTINUITY The
	PUNCTURE, THOUGHT DISTRACTION, EXERCISE,		principle that we fill in gaps to create a complete, whole
	NOSIS, RELAXATION TRAINING, ELECTRICAL		object isCLOSURE The grouping of items that are
	MULATION, AND MASSAGE. SIMILARLY, FOR BURN		close to each other is the principle ofPROXIMITY;
VICT	TIMS, DISTRACTION DURING PAINFUL WOULD CARE CAN		the grouping of items that look alike is the principle of
BE (CREATED BY IMMERSION IN A COMPUTER-GENERATED		SIMILARITY The tendency to perceive uniform or
3-D	WORLD.		attached items as a single unit is the principle ofCONNECTEDNESS
ORI	ECTIVE 14: Describe the senses of taste and smell, and		00////2012/1/200
	nment on the nature of sensory interaction.	ΛR	JECTIVE 16: Explain the binocular and monocular cues we
	The basic taste sensations areSWEET,		e to perceive depth.
	SOUR,SALTY,BITTER,		The ability to see objects in three dimensions despite
	and a meaty taste calledUMAMI	Э.	their two-dimensional representations on our retinas is
	Taste, which is aCHEMICAL sense, is enabled		calledDEPTHPERCEPTION It enables us
	by the 200 or moreTASTE BUDS		to estimateDISTANCE
	on the top and sides of the tongue. Each contains a	6	Gibson and Walk developed theVISUAL
	PORE that catches food chemicals.	0.	CLIFF to test depth perception in infants. They
12	Taste receptors reproduce themselves everyWEEK		found that each species, by the time it is
	OR TWO As we age, the number of taste buds		MOBILE, has the perceptual abilities it needs.
	DECREASES (increases/decreases/remains		, nas the perceptual asimiles it needs.
	unchanged) and our taste sensitivity	Sui	mmarize the results of Gibson and Walk's studies of depth
	DECREASES (increases/decreases/remains		rception.
	unchanged). Taste is also affected by		SEARCH ON THE VISUAL CLIFF SUGGESTS THAT IN MANY
	SMOKING and byALCOHOL use.		ECIES THE ABILITY TO PERCEIVE DEPTH IS PRESENT AT, OR
14	When the sense of smell is blocked, as when we have a		RY SHORTLY AFTER, BIRTH.
	cold, foods do not taste the same; this illustrates the	7	
	principle ofSENSORYINTERACTION		
	TheMcGURK effect occurs when we		
	SEE a speaker saying one syllable while		
	HEARING another.		

For questions 7-15, identify the depth perception cue that is	these illusions areDIMINISHED
defined.	(diminished/strengthened).
7. Any cue that requires both eyes:BINOCULAR	22. The brain computes an object's brightnessRELATIVE
8. The greater the difference between the images received	TO (relative to/independent of) surrounding objects.
by the two eyes, the nearer the object:RETINAL	23. The amount of light an object reflects relative to its
DISPARITY 3-D movies simulate this cue by	surroundings is calledRELATIVE
photographing each scene with two cameras.	LUMINANCE
9. Any cue that requires either eye alone:	24. The experience of color depends on the surroundingCONTEXT in which an object is seen. In an
MONOCULAR	
10. If two objects are presumed to be the same size, the one	unvarying context, a familiar object is seen. In an
that casts a smaller retinal image is perceived as farther	unvarying context, a familiar object will be perceived as
away:RELATIVESIZE	having consistent color, even as the light changes. This
11. An object partially covered by another is seen as farther	phenomenon is calledCOLORCONSTANCY
away:INTERPOSITION	25. We see color as a result of our brains' computations of
12. Objects lower in the visual field are seen as nearer:	lightREFLECTED by any object relative to its
RELATIVEHEIGHT	SURROUNDINGOBJECTS
13. As we move, objects at different distances appear to	
move at different rates:RELATIVE	PERCEPTUAL INTERPRETATION
MOTION	OBJECTIVE 19: Describe the contributions of restored
14. Parallel lines appear to converge in the distance:	vision, sensory deprivation, and perceptual adaptation
LINEAR PERSPECTIVE	research to our understanding of the nature-nurture
15. The dimmer of two objects seems farther away:	interplay in our perceptions.
LIGHTANDSHADOW	The idea that knowledge comes from inborn ways of
	organizing sensory experiences was proposed by the
OBJECTIVE 17: State the basic assumption we make in our	philosopherIMMANUEL KANT
perceptions of motion, and explain how these perceptions can	2. On the other side were philosophers who maintained that
be deceiving.	we learn to perceive the world by experiencing it. One
16. Our brain normally computes motion based partially on	philosopher of this school wasJOHN LOCKE
the assumption that shrinking objects are	3. Studies of cases in which vision has been restored to a
RETREATING (approaching/retreating) and	person who was blind from birth show that, upon seeing
enlarging objects areAPPROACHING	tactilely familiar objects for the first time, the person
(approaching/retreating). Sometimes we are fooled	CANNOT (can/cannot) recognize them.
because larger objects seem to move MORE	4. Studies of sensory restriction demonstrate that visual
SLOWLY (faster/more slowly) than smaller objects.	experiences duringINFANCY are crucial for
17. The brain interprets a rapid series of slightly varying	perceptual development. Such experiences suggest that
images asMOVEMENT This phenomenon is	there is aCRITICALPERIOD for normal
calledSTROBOSCOPICMOVEMENT	sensory and perceptual development.
18. The illusion of movement that results when two adjacent	5. Humans given glasses that shift or invert the visual field
stationary spots of light blink on and off in quick	WILL (will/will not) adapt to the distorted
succession is called thePHI	perception. This is calledPERCEPTUAL
PHENOMENON	ADAPTATION
	6. Animals such as chicksDO NOT ADAPT (adapt/do
	not adapt) to distorting lenses.
OBJECTIVE 18: Explain how perceptual constancies help us to	
organize our sensations into meaningful patterns.	OBJECTIVE 20: Define perceptual set, and explain why the
19. Our tendency to see objects as unchanging while the	same stimulus can evoke different perceptions in different
stimuli from them change in size, shape, and lightness is	contexts.
calledPERCEPTUALCONSTANCY	7. A mental predisposition that influences perception is
20. Due to shape and size constancy, familiar objectsD0	called aPERCEPTUALSET
NOT (do/do not) appear to change shape or size	8. How a stimulus is perceived depends on the concepts, or
despite changes in our RETINAL images of them.	SCHEMAS, we form and theCONTEXT in
21. Several illusions, including theMOON and	which the stimulus is experienced.
PONZO illusions, are explained by the interplay	9. The context of a stimulus creates aTOP-DOWN (top-
between perceivedSIZE and perceived	down/bottom-up) expectation that influences our
DISTANCE When distance cues are removed,	

	perception as we match ourBOTTOM-UP (top-		
	down/bottom-up) signal against it.		
10.	Our perception is also influenced bySTEREOTYPES		
	about gender and theEMOTIONAL context of our		
	experiences.		
11.	To best understand perception, we need multiple levels of		
	analysis because perception is aBIOPSYCHOSOCIAL		
	phenomenon.		
	F		
IS T	HERE EXTRASENSORY PERCEPTION?		
	ECTIVE 21: Identify the three most testable forms of ESP,		
	explain why most research psychologists remain		
	ptical of ESP claims.		
	Perception outside the range of normal sensation is		
	calledEXTRASENSORY PERCEPTION		
2.	Psychologists who study ESP are called		
	PARAPSYCHOLOGISTS .		
3.	The form of ESP in which people claim to be capable of		
-	reading others' minds is calledTELEPATHY A		
	person who "senses" that a friend is in danger might		
	claim to have the ESP ability ofCLAIRVOYANCE		
	An ability to "see" into the future is called		
	PRECOGNITION A person who claims to be able to		
	levitate and move objects is claiming the power of		
	PSYCHOKINESIS .		
4.	Analyses of psychic visions and premonitions reveal		
	CHANCE-LEVEL (high/chance-level) accuracy.		
	Nevertheless, some people continue to believe in their		
	accuracy because vague predictions often are later		
	INTERPRETED (RETROFITTED) to match events		
	that have already occurred. In addition, people are more		
	likely to recall orRECONSTRUCT dreams that seem		
	to have come true.		
5.	Critics point out that a major difficulty for parapsychology		
	is that ESP phenomena are not consistently		
	REPRODUCIBLE		
6.	Researchers who tried to reduce external distractions		
	between a "sender" and a "receiver" in an ESP		
	experiment reported performance levels that		
	BEAT (beat/did not beat) chance levels. Follow-		
	up studiesFAILED TO REPLICATE THE RESULTS		
	(failed to replicate the results/found equally high levels of		
	performance).		
	po		