

## Star Pics Word List

In Star Pics, participants progress through 2 tasks, the phonemic task and the semantic task, as follows:

Within the phonemic task, the participant progresses through 5 levels. In the early levels, Star Pics presents words in which the speech sounds have been digitally altered using patented methods (including selective intensity increases and duration extensions) to provide enhanced learning opportunities. As the participant progresses through the levels, Star Pics decreases this processing, and eventually, in level 5, presents the words using natural speech. The participant progresses through all word groups at each speech processing level.

Within each level, the participant progresses through 6 groups of words. The words are grouped to become progressively more difficult based on the following 3 factors:

- Difficulty of alternate responses (1 vs. 3 minimal pairs)
- Target phoneme difficulty
- Target phoneme position (initial vs. final)

Within the semantic task, all stimuli are presented at the natural speech level. The participant progresses through 8 groups of words. The words are grouped based on vocabulary type:

- Stellar Stories vocabulary: Nouns
- Stellar Stories vocabulary: Verbs
- Science vocabulary: Anatomy, animals, and plants
- Science vocabulary: Geology, ecology, and astronomy
- Science vocabulary: General concepts, scientists, tools, and processes
- Math vocabulary: Arithmetic operations and fractions
- Math vocabulary: Numbers, comparisons, and graphs
- Math vocabulary: Geometry

**Phonemic Task**

**Group 1**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
base	face	bear	bell
face	base	bell	bear
face	vase	ache	lake
vase	face	lake	ache
bee	me	dip	zip
me	bee	zip	dip
ache	lake	sink	think
lake	ache	think	sink
ache	rake	bee	me
rake	ache	me	bee
sink	think	piece	peach
think	sink	peach	piece
dip	zip	face	vase
zip	dip	vase	face
bear	bell	base	face
bell	bear	face	base
piece	peach	ache	rake
peach	piece	rake	ache

**Group 2**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
knee	bee	vase	base
bee	knee	base	vase
vase	base	knee	bee
base	vase	bee	knee
dip	sip	safe	save
sip	dip	save	safe
lawn	yawn	cash	catch
yawn	lawn	catch	cash
knee	me	bug	buck
me	knee	buck	bug
rake	wake	sip	zip
wake	rake	zip	sip
rung	young	sauce	saws

**Group 2 (continued)**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
young	rung	saws	sauce
sack	shack	fan	fang
shack	sack	fang	fan
sip	zip	rake	wake
zip	sip	wake	rake
thorn	torn	mouse	mouth
torn	thorn	mouth	mouse
ache	wake	foam	phone
wake	ache	phone	foam

**Group 3**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
safe	save	dip	sip
save	safe	sip	dip
cheese	chief	pat	path
chief	cheese	path	pat
bug	buck	knee	me
buck	bug	me	knee
foam	phone	ache	wake
phone	foam	wake	ache
fan	fang	sack	shack
fang	fan	shack	sack
mouse	mouth	thorn	torn
mouth	mouse	torn	thorn
sauce	saws	rung	young
saws	sauce	young	rung
cash	catch	lawn	yawn
catch	cash	yawn	lawn
pat	path	cheese	chief
path	pat	chief	cheese
breathe	breeze	swim	swing
breeze	breathe	swing	swim
fuzz	fudge	breathe	breeze
fudge	fuzz	breeze	breathe
swim	swing	fuzz	fudge
swing	swim	fudge	fuzz

**Group 4**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
day	they	J	hay
they	day	J	hay
lake	rake	wake	ache
rake	lake	wake	ache
lake	wake	rake	ache
wake	lake	rake	ache
chip	dip	sip	zip
dip	chip	sip	zip
chip	sip	zip	dip
sip	chip	zip	dip
pack	shack	tack	sack
shack	pack	tack	sack
tack	shack	pack	sack
shack	tack	pack	sack
pack	tack	shack	sack
tack	pack	shack	sack
peas	peach	piece	peel
peach	peas	piece	peel

**Group 5**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
knee	bee	me	D
bee	knee	me	D
vase	base	face	chase
base	vase	face	chase
dip	sip	chip	zip
sip	dip	chip	zip
lawn	yawn	dawn	fawn
yawn	lawn	dawn	fawn
knee	me	bee	D
me	knee	bee	D
rake	wake	take	ache
wake	rake	lake	ache
rung	young	sung	tongue
young	rung	sung	tongue
sack	shack	pack	tack
shack	sack	pack	tack

**Group 5 (continued)**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
sip	zip	dip	chip
zip	sip	dip	chip
Sue	zoo	shoe	two
zoo	Sue	shoe	two
thorn	thorn	corn	horn
torn	thorn	corn	horn
ache	wake	lake	rake
wake	ache	lake	rake

**Group 6**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
safe	save	sail	sage
save	safe	sail	sage
cheese	chief	check	cheer
chief	cheese	check	cheer
tack	tag	tap	tan
tag	tack	tap	tan
bug	buck	bud	bus
buck	bug	bud	bus
comb	cone	coat	core
cone	comb	coat	core
sum	sun	sung	sub
sun	sum	sung	sub
foam	phone	foal	four
phone	foam	foal	four
lime	line	light	lion
line	lime	light	lion
long	lawn	log	lock
lawn	long	log	lock
wing	win	wig	wink
win	wing	wig	wink
sung	sun	sum	sub
sun	sung	sum	sub
rung	run	rub	rug
run	rung	rub	rug
tongue	ton	tub	touch
ton	tongue	tub	touch

**Group 6 (continued)**

<b>Target Word</b>	<b>Alternate Response 1</b>	<b>Alternate Response 2</b>	<b>Alternate Response 3</b>
bass	bath	bat	back
bath	bass	bat	back
piece	peas	peach	peel
peas	piece	peach	peel
sauce	saws	sock	sob
saws	sauce	sock	sob
cash	catch	cat	cast
catch	cash	cat	cast
wash	watch	wasp	waffle
watch	wash	wasp	waffle
toot	tooth	tube	tool
tooth	toot	tube	tool
pat	path	pack	pad
path	pat	pack	pad

**Semantic Task**

**Stellar Stories Vocabulary: Nouns**

accident	dinner	scientist
antlers	doctor	sea squirt
baby	dog	seal
ball	door	shrimp
bin	fries	squid
blowfish	green	starfish
blue	helmet	streamers
brown	kid	street
busboy	menu	trainer
card	movie	trout
cat	orange	t-shirt
chocolate	pen	walrus
clothes	pencil	
convertible	picture	
cook	policeman	
coral	purse	
corner	salmon	
crown	sandwich	

**Stellar Stories Vocabulary: Verbs**

arrive	opening
balancing	painting
biting	rolling
buying	scratching
consoling	shouting
crawl	sleep
crying	smash
eat	sorting
flipping	splashing
floating	squeezing
helping	swerve
hitting	swimming
leaning	training
leap	trip

**Science Vocabulary: Anatomy, Animals, and Planets**

abdomen	lungs
amphibian	mammal
backbone	molar
bacteria	mold
capillary	muscle
dinosaur	pollen
ear	pupa
earthworm	pupil
egg	reptile
esophagus	rib
fern	root
flower	skeleton
fruit	skin
hatch	spore
incisor	stem
insect	stomach
joint	
larva	
leaf	
lens	

**Science Vocabulary: Geology, Ecology, and Astronomy**

atmosphere	horizon
cloud	hurricane
constellation	lava
core	liquid
crust	meteor
dew	minerals
dissolve	moon
earth	orbit
eclipse	planet
equator	ridge
fog	satellite
frost	smog
gas	solid
hail	volcano

**Science Vocabulary: General Concepts, Scientists, Tools, and Processes**

absorb	decay
astronaut	digest
astronomer	evaporate
atom	expand
balance	funnel
battery	hibernate
biologist	magnet
boil	microscope
breathe	molecule
cell	nucleus
chemist	pendulum
concave	revolve
condense	switch
convex	taste

**Math Vocabulary: Arithmetic Operations and Fractions**

add	multiply
denominator	numerator
difference	plus
divide	product
dividend	proper fraction
factor tree	quotient
improper fraction	reciprocal
less	remainder
minus	subtract
more	sum

**Math Vocabulary: Numbers, Comparisons, and Graphs**

bar graph	mixed number
billion	number line
circle graph	pair
column	percent
decimal	row
dozen	table
equal	tenth
greater than	thousand
hundredth	unequal
integer	zero
less than	
line graph	
median	
million	

**Math Vocabulary: Geometry**

acute angle	perimeter
angle	perpendicular
center	plane
circle	prism
closed figure	protractor
compass	radius
cone	rectangle
cube	rhombus
diameter	right angle
hexagon	round
horizontal	ruler
intersect	segment
line	sphere
obtuse	square
angle	thermometer
parallel	triangle
parallelogram	vertex
pentagon	vertical
pentomino	