

STAAR Spring 2024 Grade 8 Science Rationales

Item Position	Rationale	
	2 SWL\$RQV FRUUHFW	OLFH DQG %HHWOHV DUH WKH SU EHFDXVH WKH\ HDWFRQVXPHUV FRQVXPHUV HDW SULPDU\ FRQVXPHUV 7 EDWV RZOV UDFFRRQV DQG GUDJRKIO SULPDU\ FRQVXPHUV
	2 SWL%RQV LQFRUUHFW	2WKHU WKDQ PLFH DQG EHHWOH WRUJDQLV\ WKH IRRG ZHE %XW JUDVVHV HDW SULPDU\ FRQVXPHUV
	2 SWL&RQV	7KHUH DUH VHYHQ RUJDQLVPLVQD
	LQFRUUHFW	WKH IRRG ZHE EXW WKLV LV QRW WKH Q
		RUJDQLVPV

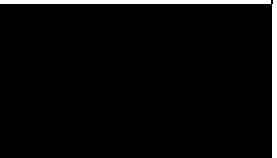
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Item Position	Rationale
2 S W L R Q % F R U U H F W	

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Item Position	Rationale	
	2 SWLRQ \$ FRUUHFW	\$ FFRUGLQJ WR 1HZWRQTV WKLUD REMHW H[HUWV D IRUFH RQ D VHFRQG VHFRQG REMHW ZLOO H[HUW DQ HTXDO IRUFH RQ WKH ILUVW REMHW
	2 SWLRQ % LQFRUUHFW	7KH DPRXQW RI IRUFH WKH IORR W@VS WTLRDO&WR QRW JUHDWHU WKDQ WK IRUFH WKH EDOO H[HUWV RQ WK
	2 SWLRQ & LQFRUUHFW	ØKSHJVRPIØQRRIUSXXKKQQJXSSRRQQWKHEDOO WUUDYWW\SSØOOQQJGØQRQRQWMKHEBDOOGØ

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Item Position	Rationale
	2 SWL PL QV F RUUHF W  % UHDNLQJ DQ HJJ GRHV QRW FK FKHPL ISD QSHUWLHV RIKM KHH IRLJWH L ^V D SK\VLFD O FKDQJH

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Item Position	Rationale	
SW V	SW	3URWRQ FKDUJH DQG ORFDWLRQ 1HXWURQ FKDUJH DQG ORFDWLRQ (OHFWURQ FKDUJH DQG QORUFJD VOLHY
	SW	7KH VWXGHQW DQVZHUV KDOI RI FRUUHFWO\
	SW	7KH UHVSRQVH LV ILQEURHQDWHYDWLRQ

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Item Position	Rationale
2 SWLRQ % FRUUHFW	:KHQ YLHZHG IURP (DUWK WKH EH D ZDQLQJ FUHVFHQW PRRQ ZKHQ LW 3RVLWL RIQLV LV EHFDXVH WKH GDUN SRU WKH PRRQ LV JHWWDQGJ ROODOUJDU WPDQ DPRXQW RI OLJKW FDQ EHWWMHQHRQI WKH WKH PRRQ
2 SWLRQ \$ LQFRUUHFW	:KHQ LW BRVILQWL RWK:H PRRQ DSS WEHD ZD[LQJ FUHPVRFRHQKLV LV EHFDXVH IURP (DUWKIV SHWKSHFVRPRGRHVWO\ GDUN ZLWK D VPDOO DPRXQW RI OLJKW VLGDQWKDWJKW SRUVWHRQWLQJ ODUJHU HDFK GD\
2 SWLRQ & LQFRUUHFW WKG	:KHQ LW BRVILQWL RWK:H PRRQ DSSH WEH DDQLQJ JLEERXVKPLR/RQV EHFDXVH IURP (DUWKIV SHWKSHFVRPRGRHVWO\ OLW RSEDBOBWKBIB @ UMHDD FRYBY,IOUIMAS"AE€y@IpJKyWPUBDD GHFUHJDLQ
2 SWLRQ & L	

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Item Position	Rationale
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Item	Rationale
[REDACTED]	2 S W L'R QV F R U U H F W

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Item Position	Rationale	
	2 SWLRQ & FRUUHFW	2 UJDQLVPV LQ .LQJGRP \$QLPDOL PXOWLFDOKWURWURSKLD DQG KDYH QXFOHXV
	2 SWLRQ \$ LQFRUUHF	2 UJDQLVPV LQ .LQJGRP %DFWHDU QXFOHXV
	2 SWLRQ % LQFRUUHF)XQJL DUHD XQRWWURSKLF
	2 SWLRQ ' LQFRUUHF	2 UJDQLVPV LQ .LQJGRP \$UFKDHD PXOWLFFHOXODU

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Item Position	Rationale
	2 SWLRQ \$ FRUUHFW 3ODQWV FRQYHUW OLJKW HQHUJ IRU SODQW JURZWK
	2 SWLRQ % LQFRUUHF 3ODQWRQ RW FRQYHUW WKHUPDO HQHUJ\
	2 SWLRQ & LQFRUUHF 3ODQWRQR FRQYHUW WKHUPDO PHFKDQLFDO HQHUJ\
	2 SWLRQ ' LQFRUUHF 3ODQWRQR RW FRQYHUW OLJKW HQH HOHFWULFDO HQHUJ\

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Item Position	Rationale
2 S W L Q QV F R U U H F W	(O H P H Q W W K W K H V D P H Q X P E H U I H O H F W D U R Q W K H V D D H D Q G R I X S Y H D

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Item Position	Rationale
2 SWLRQ % FRUUHFW	6 LPLODU IRVVLO WRQD YDUIURXXQ/GPRC FRQWLQZHQLWVVKRZV WKDW WKH FRQWLQI ZHUH PRVW OLNHO\ MRLQHG RYHU PL DJRDQG VORZO\ PRYHG DSDUW
	2 SWLRQ \$ LQFRUUHFWQRW KHOS H[SODLQ WKH PRYHPHQW RI F FRQWLQHQW DQHSWDLWHLVGLIIHUGH EHWZHHQ WKH IRVVLOV LV QRW
	2 SWLRQ & LQFRUUHFWQRW KHOS H[SODLQ WKH PRYHPHQW RI F FRQWLQHQW DQDSWDLWKHVIRVVLOV ZHUH L VDPH WLPH SHULRG GRHV QRW DFFRXQW PRYHPH QMPXOWL SOH SODWHV
	2 SWLRQ ' LQFRUUHFW XQLTXH

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Item Position	Rationale	
SWV	S W V) U R P W R S W R E R W W R P & R P H W 0 H W H R U R U 0 H W H R U 1 H E X O D
	SW	7 K H V W X G H Q W D Q V Z H U V K D O I R I V F R U U H F W O \
	SW	7 K H U H V S R Q V H L V L Q F R U U H F W R U

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Item Position	Rationale	
	2 SWLRQ ' L FRUUHFW	% HFDXVH W <u>Q</u> HUV Z <u>D</u> Q <u>G</u> UPRUH VD EHLQJ DGGHG WR WKH VRLO WKH QDWLYH SRSXODWLRQ ZLOO OLNHO\ GHFU
	2 SWLRQ \$ LQFRUUHF	0RVW QDWLYH FRQVXPHUV GR Q WWUHM RWKH QXPEHU RI FRQVXPHUV ZLOO LQFUHDVH
	2 SWLRQ % LQFRUUHF	6DOW FHGDU WUHHV XVH PRUH Z WSHFLW KHUH MRKHH ZDWHU OHYHOV LQ WK ZLOO GHFUHDVH
	2 SWLRQ & LQFRUUHF	6DOW FHGDU WUHHV DGG W <u>D</u> K <u>O</u> D C OHYHOV ZLOO LQFUHDVH

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Item Position	Rationale
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Item Position	Rationale	
	2 SWL\$IQV FRUUHFW	\$ QHZ PRRQ RFFXUV DSSUR[LPDV GD\V GD\V GLYLGHG E\ WKH QXPEHU RI LW WDNHV EHWZHHQ IXOO PRRQV GD\V WKDW QHZ PRRQV FDQ RFFXU GXULQJ GD\ SHU\ZRU\UHIRUH WKHUH DUH DERXW PRRQV WKDW FDQ RFFXU LQ C
	2 SWL\$IQV LQFRUUHFW	(LJKW LV WKH QXPEHUVW LQ D\HDU QXPEHUQRIZ PRRQV LQ D\HDU
	2 SWL\$IQV LQFRUUHFW	7ZHQLQH LV WKH QXPEHUVW LQ WHDFQHZ PRRQ QRW WKH QXPEHU RI QHZ SHU\HDU
	2 SWL'RQV LQFRUUHFW	7KLURVQH LV JWK\B WQXWMEHU RI GD\V WPRQWK QRW WKH QXPEHU RI QHZ PRRQV \HDU

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Item Position	Rationale
2 SWLRQ ' L FRUUHFW	(QH UJ\ WUDQVIHU IURP RQH WUF QH[W LV QRW YHU\ HIILFLHQW DV HQHU HDFK OHYHO 3URGXFK#f)"r Åð0 \3U RGAF.Òfv ,n§• \$R f [REDACTED]

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Item Position	Rationale
	2 SWLRQ % 3URWRQV DQG QHXWU RACKPHF VENOM fogd&...V b'€ FRUUHFW WKH DWRPLF PDVV 2 SWLRQ \$ LQFRUUHF'

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Item Position

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Item Position	Rationale	
SWV	SWV	7KH VWXGHQW LGMQFMRDQHGLWKH FKDUDFWHULVWLKV IURP WKH WRS DVWZ SULQFLSOHV RI FHOO WKHRU\
	SW	7KH VWXGHQW DQVZHUV KDOI RI V FRUUHFWO\
	SW	7KH UHVSQRQVH LV LQFRUUHFWRU

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Item Position	Rationale	
	2SWLRQ % FRUUHFW	2FHDQLF ULGJHV GR QRW RFFXU RFFXU DW GLYHUJHQW SODWH ERXQGDULHV 7UHQFKHV DQG YROFDQRHV RFFXU DW FRQYHUJHQW SODWH ERXQGDULHV
	2SWLRQ \$ LQFRUUHF	&RQWLQHQWDO ULIW YDOOH\VV WSOD\ERXQGDULHV QRW FRQYHUJHQW SODWH ERXQGDULHV
	2SWLRQ & LQFRUUHF	2FHDQLF ULGJHV GR QRW RFFXU SODWH ERXQGDULHV
	2SWLRQ ' L LQFRUUHF	7UHQFKHV GR QRW RFFXU DW GL WERXQGDULHV

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Item Position	Rationale
2 S W L\$IQV F R U U H F W	0 H&WMDQDF Bi-Q MF N H O D U H P D O O H D E P H W D O O R X E BODIV 0 W L R Vqvaå' &bl ñ&€ À

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Item Position	Rationale	
	2 SWL&IQV FRUUHFW	7KH QXPEHU RI K\GURJHQ DWRPV UHDFWDQWV LV HTXDO WKRG WRKJHH QXPEHU DWRPV LQ WKH SURGXFWV 7KLV SURYLG WKDW WKH WRWDO PDVV LV FRQ
	2 SWL\$IQV LQFRUUHFW	:KLOH WZR QHZ VXEVDQFHWKZM WGRHV QRW JLYH DQ\ LQIRUPDWLRQ DERX RI WKHRGXFWV DQG VRDQFRWIDQDWLP FDQ EH PDGH DERXW WKH FRQVHUYD
	2 SWL%IQV LQFRUUHFW	:KLOH WMLDWHPMQAW °\$•LV

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Item Position	Rationale
SWV 0 S °G LÄÄÄ OH	7KH GLDJUDP VKRZV WKDW WKH 1 6RXWKHUQ +HPLVSKHUHV H[SHULHQFH GLI VHDVRQV DW WKH \$1DP MHWUPIB VRQ IRU WKH GLIIHUHQFH V LQ VHDVRQV EHWZHQQ !D L\ r H0H2` Ç Q W !D L(GL@p \p D !D Lp 0 WD

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Item Position	Rationale	
	2 SWLRQ & FRUUHFW	7KHJUDVVKRBSBWKVHFLRPSHWLQJZL KHUELYRZURRGUDQSDOOLQJHG JUDVVKRVS\$RU EULWWOHEXVK ,WLVDOV FRPSHWLQFZUWKYRERHRZDRUP`"-)UV3f JUDVVKRSSHU
	2 SWLRQ \$	7KHJUDVVKRBSBWKVH LV QRW FRPSI LQAFRUXTEI SURGXFHUV IRU RU FH

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Item Position	Rationale
	2 SWL\$RQV FRUUHFW /RFDWL RQ PXFK KLJKHU WKDQVR WKH FDUW KDV PRUH JUDYLWDWL RQDO S HQHUUJ\ DW /RFMDKNDLQRQW GRHV QW /RFDWL 7KH SRWHQWLDO HQHUUJ\ ORVW E\ WKH F PRYHV IURP /RFMDWLRQDWLVRQ FRQYHUWHG WR NLQHWLF HQHUUJ\ VR WK HQHUUJ\ RI WKH FDUW RFDWHLBWKHDLQ DW / LW DW /RFDWL RQ
	2 SWL\$RQV LQFRUUHFW /RFDWL RDQG WKH UH LV OHVV QRW PRUH HQHUUJ\ DW /RFMDKNDLQRQW /RFDWL RQ
	2 SWL\$RQV LQFRUUHFW /PRYHV IURP /RFMDWLRQDWLQRQ/KH NLQHWLF HQHUUJ\ 7LKQHFLUHHBUVHV WKH NLQH DQG SRWHQWLDO HQHUFJ\ DQWLRQ RHFWDWLRQ WKH VDPH DV DW /RFDWL RQ <
	2 SWL'RQV LQFRUUHFW /WKDQ LW KDV DW /RFDWL RQ

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Item Position	Rationale	
	2 SWL&IQV FRUUHFW	ODJQHV LXP KDUWRWRQV
	2 SWL\$IQV LQFRUUHF	&DUE RQ KD V SURWRQV
	2 SWL%IQV LQFRUUHF	&KURPLXDV SURWRQV
	2 SWL'RQV LQFRUUHF	=LQF KD SURWRQV