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**Heena**

HVS HFLDOOVUDWH

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**Aaron**



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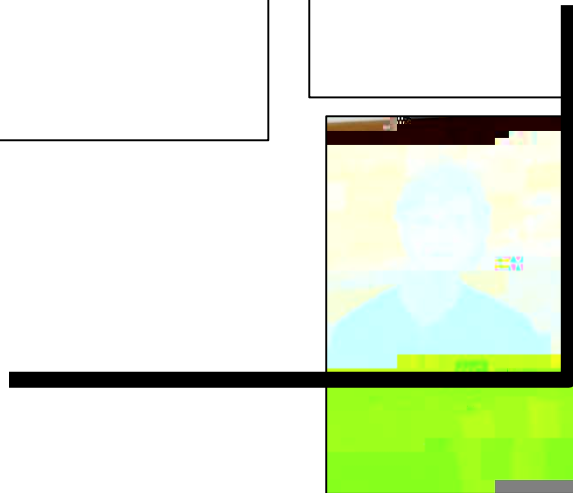
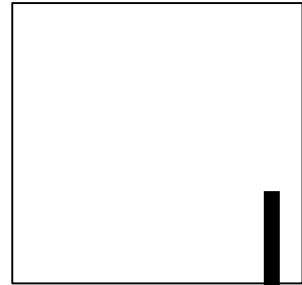
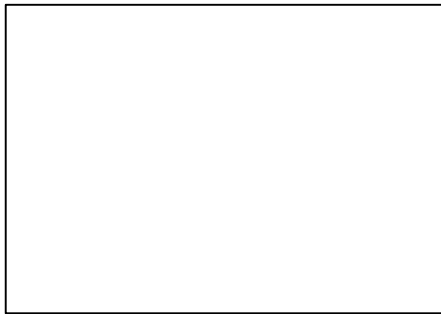
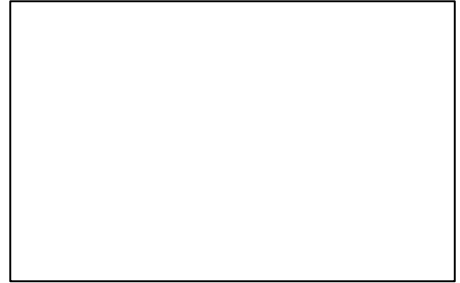
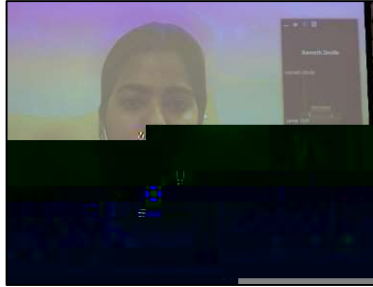




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VW 3000LH \*HUPDLQ

&R DXWKRUV -DNH :RRGV DQG -DFN +ROWKDP

0DMRU LQ &RQVWUXFWLRQ 0DQDJHPHQW

0HQWRUV 'U 6HRN\RQ +ZDQJ DQG 'U 0LQN\XP .LP

5HHVH &RQVWUXFWLRQ 0DQDJHPHQW 3URJUDP

3,PSDFW RI WKH 7UDQVLWLRQ IURP 'LHVHO 3RZHUG WR %DW

(TXLSPHQW RQ (QYLURQPHQW 6DIHW\ DQG (FRQRP\ '

(OLH•V WHVWLDPRQLDLOOHG DQG KRQRUHG WR EH VWDQGLQJ KHUH WR  
67(0 SRVWHU SUH€€@,wÃH• R WDD\W(F BRSDUEZG HK W/R RQ D HGBR @ "tÀ

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.DWLH 3DJH DQG \*UDIWRQ &RQJHU  
&R DXWKRUV 1DWKDQ 9LQFHQW %UDQG\ 0HMLD 0LFKDHO 6HJ  
'HYRQ &DUWHU  
0DMRUV LQ 0HFKDQLFDO (QJLQHHLQJ  
0HQWRU 'U -HQQ\ =KRX 'HSDUWPHQW RI 0HFKDQLFDO (QJLQH  
'3WLUOLQJ (QJLQH .DUW )UDPH \$QDO\VLV '

\*UDIWRQ•V WHVZMLU RQHLDP  
RI D VWLUOLQJ HQJLQH DV ZHOO DV ZRUN RQ WKH DQDO\VLV RI WKH  
ZLWKVWDQG WKH DGMXVWPHQWV WKDW ZHUH EHLQJ PDGH WR LW 7KUR  
WR RYHUFRRPH WKH ELJ OHDUQLQJ FXUYHV ZH KDG DV D JURXS WR EH  
UHVHDFK ZH ZHUH DEOH WR GR '

%HVW +\$6%6(% 3UHVHQWDLRQ • ,Q SURJUHVV DQG \$GY

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0HQWRU 3URI \$QGUH )DYRUV  
'HSDUWPHQW RI &RPPXQLFDWLRQ DQG 0HGLD  
'\$ 5KHWRULFDO \$QDO\VLV RI WKH 8VHV RI 3DURG\ DQG ,QWHU  
1LQHWHHQ (LJKW\ )RUWQLWH \$GYHUWLVHPPHQW '

^!™@ @\W% (7!QMDRLQ•V WHVWLL

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% H V W \* U D G X D W H / H Y H O 3 R V W H U

V W 3 0 0 F D I Q G D Q & K D X G K D U L

& R D X W K R U V 6 X G K D N D U 5 D Y X U L D Q G 6 Z L N D U . &

\* U D G X D W H 6 W X G H Q W L Q 0 H F K D Q L F D O ( Q J L Q H H U L Q J

0 H Q W R U ' U ; L D Q F K D Q J / L

' H S D U W P H Q W R I 0 H F K D Q L F D O ( Q J L Q H H U L Q J

3 ' H Y H O R S P H Q W R I D Q ( I I H F W L Y H ( M H F W R U 3 X P S 6 \ V W H P W R ( Q

5 H P R Y D O I R U 3 R U W D Q G 2 W K H U & R D V W D O , Q I U D V W U X F W X U H V

& K D Q G D Q • V W H V W R L P R I Q L D Q G H U W K H P H Q W R U V K L S R I ' U ; L D Q F K D Q J / L  
E H H Q D Q H [ F H S W L R Q D O H [ S H U L H Q F H W K D W K D V L J Q L W H G P \ S D V V L R Q I I  
P \ Z R U N D W D Q ( ; 3 2 Z K H U H , U H F H L Y H G Y D O X D E O H I H G E D F N I U R P H [ S H  
F R P P H Q G D E O H D Q G L Q V S L U L Q J R S S R U W X Q L W \ 2 Y H U D O O W K L V H [ S H U L H  
X Q G R X E W H G O \ V K D S H P \ I X W X U H H Q G H D Y R U V '

Q G 3 0 0 F D I F K D O . K D U H O

\* U D G X D W H 6 W X G H Q W L Q 0 H F K D Q L F D O ( Q J L Q H H U L Q J

0 H Q W R U ' U ; X H M X Q ) D Q

' H S D U W P H Q W R I 0 H F K D Q L F D O ( Q J L Q H H U L Q J

3 ' H I R U P D W L R Q R I D 1 O D \ H U 6 W U L S 6 X E M H F W H G W R 7 H P S H U D W

1 L V F K D O • V W H V W D P R I Q L F L O W H G W R V K D U H P \ H [ S H U L H Q F H D Q G W K H D Z D  
& R O O D E R U D W L Q J Z L W K P \ P H Q W R U ' U ; X H M X Q ) D Q R Q Y - H L ` X



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J O   P G G F S J O H   T U V E F O U   S F D P H

5 I F \$ F O U F S   G P S   ) J T U P S Z   B O E   \$ V M U V S F   P  
U I F 6 Q Q F S   ( V M G \$ + B T E U Q I S - J T O F T O M F Z   U X B S E

. L P E H U O L H 7 U D Y H E V W H D G H U W H E U D W H \$ H U L D O ' L V S H U V D O R Q W K H & K H Q L H U 5 L  
I R U 7 D U G L J U D G H V L Q W K H : L Q G

% H Q M D P L Q 3 8 R U L M U G H G , Q W H U H V W V '

& K D Q G D Q & K D Q G D Q D N D U 5 D Y X H L O R S P H Q W R I D Q ( I I H F W L Y H ( M H F W R U 3 X P S 6 \ V  
6 X V W D L Q D E O H 6 H G L P H Q W 5 H P R Y D O I R U 3 R U W D Q G 2 W K H U & R D V W D O , Q I U D V W U X

- ( # 5 2   \* O J U J B U J W F T   \$ P N N B W F O E Q S P X B S E T

+ D O O L % 0 0 0 0 X S U H P H / D Z R I W K H / D Q G 9 H U V X V 3 X E O L F 2 S L Q L R Q \$ 6 F K R O D U O A  
' R E E V Y - D F N V R Q R Q W K H ) X W X U H R I 2 E H U J H I H O O Y + R G J H V '

\$ O H [ D + H Q J







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(SBGUPO \$POHFS

+RZ 685) SURJUDP KHOSHG PH WR EH D UHVHDU

:KHQ VWDUWLQJ DW /DPDU 8QLYHUVLW\ , ZDV  
QRW VXUH KRZ , ZDQWHG WR JHW LQYROYHG ,Q D JHQHUDO

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## \$IMPF 4NJUI

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D\ H[SHULHQFH ZLWK WKH 6X  
8QGHUJUDGXDWH 5HVHDFK )HOORZ  
SURJUDP KDV EHHQ LQYDOXDEOH \$  
UHFLSLHQW RI WKH 685) DZDUG LQ  
, ZDV DEOH WR JDLQ FULWLFDO N  
UHVHDFK H[SHULHQFH LQ P\ ILHO  
VSHHFK ODQJXDJH SDWKRORJ\

:LWK WKH KHOS RI P\ PHQWRUV 'U  
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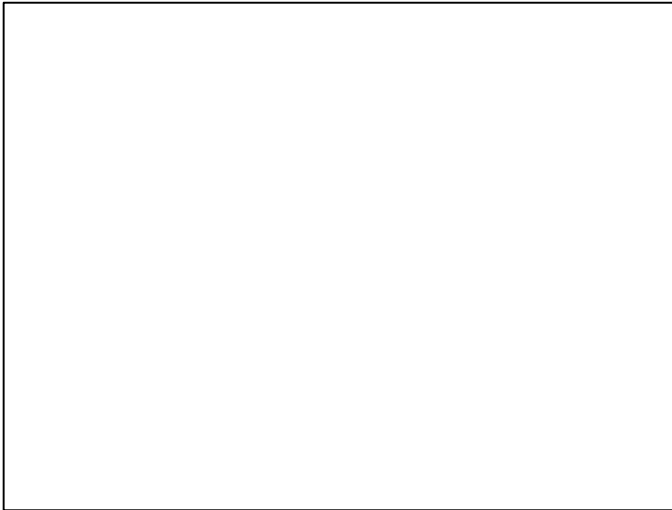
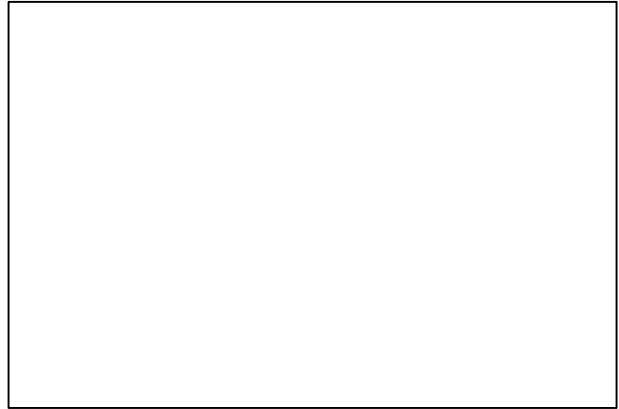
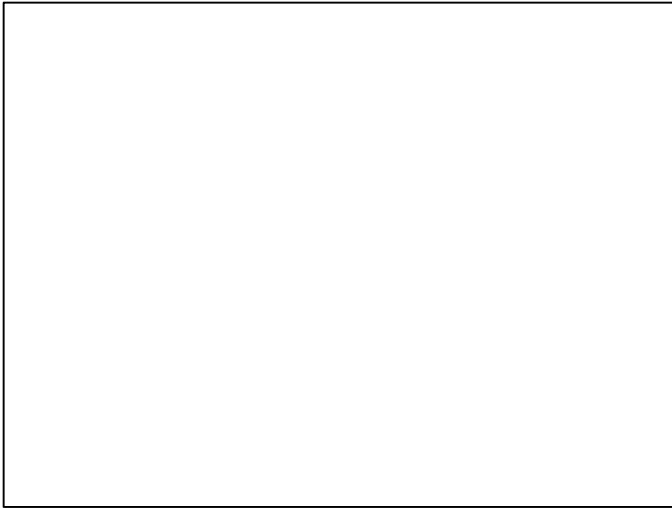
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+HDULQJ \$VVRFLDWLRQ 76+\$ &RQIHUHQFH LQ )RUW :RUWK 7KH 2IILF  
WUDYHO\ SURYLGHG WKH WUDYHO VXSSRUW WR PDNH P\ DWWHQGD  
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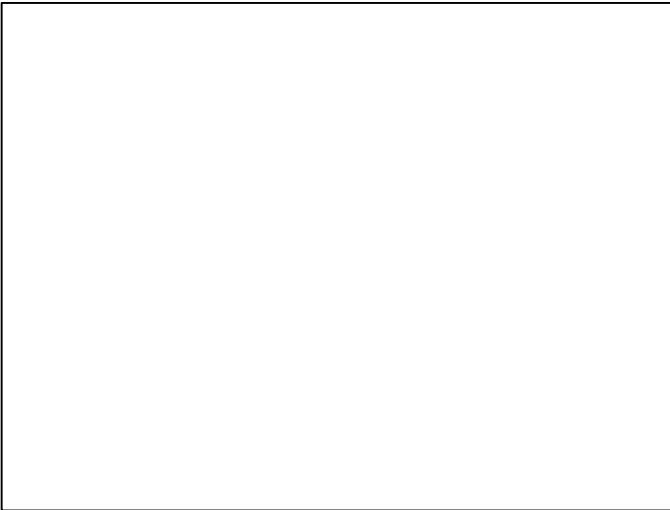
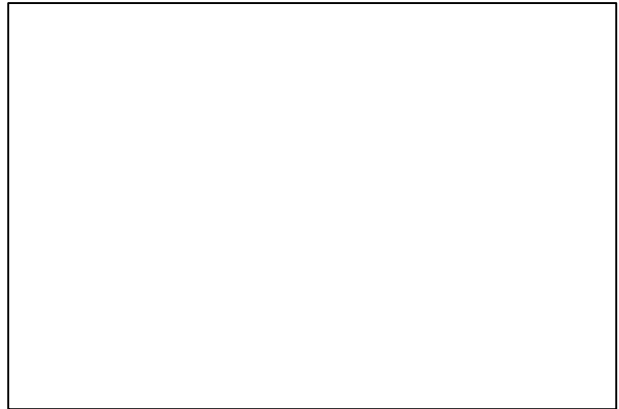
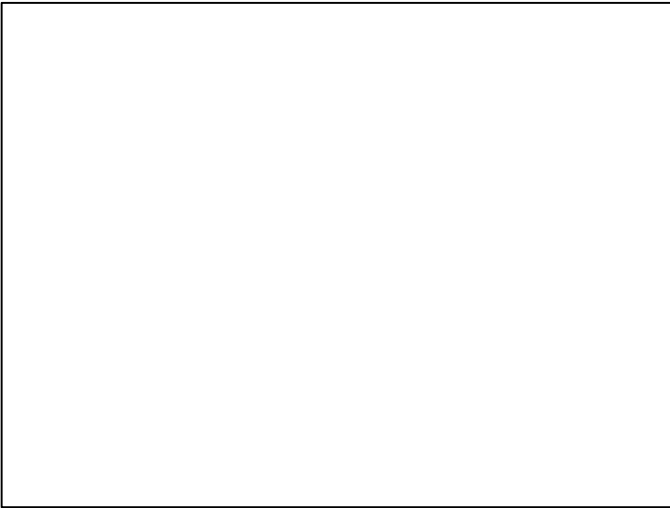
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# 463' 8JOOEST

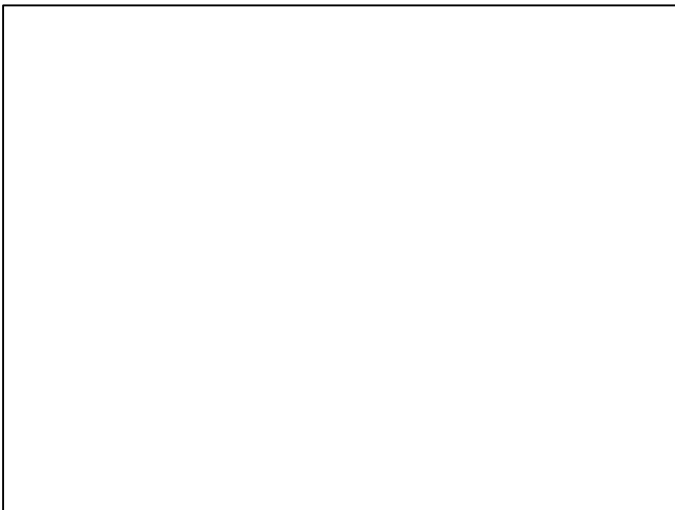
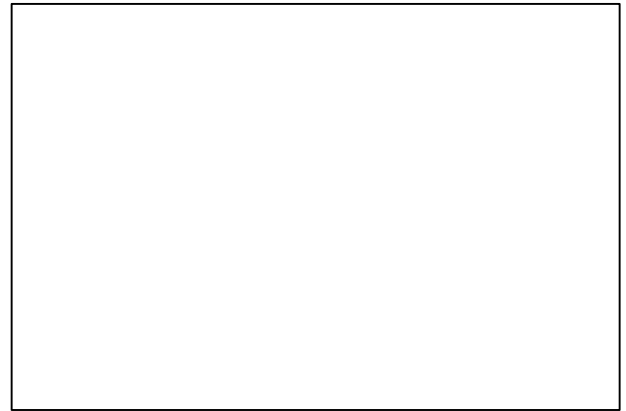
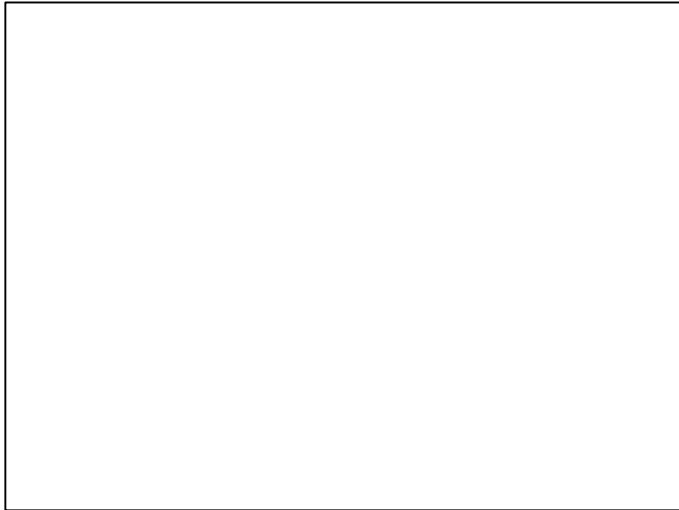




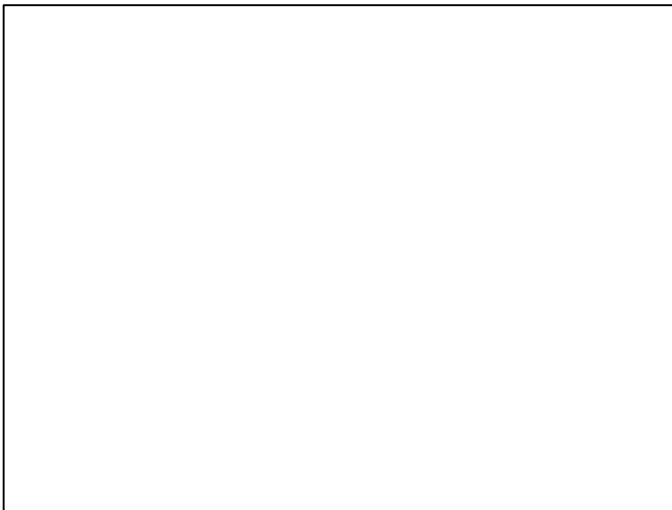
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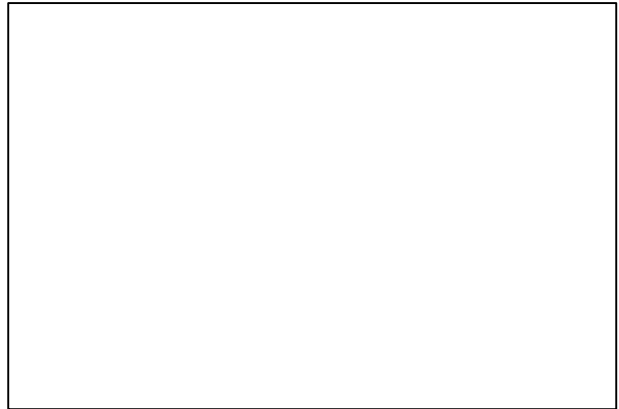
# 463' 8JOOFST



# 463' 8JOOEST



463' 8JOOFST



'BDVMUZ.FOUPS"XBS

)"4#4&# 'BDVMUZ.FOUPS"XBSE 8JOO

%S .BNUB 4JOHI

"TTPDJBUF 1SPGFTTPS PG 5FBDIFS &EVDBUJP

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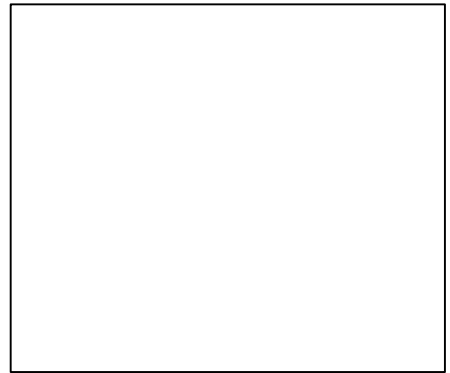
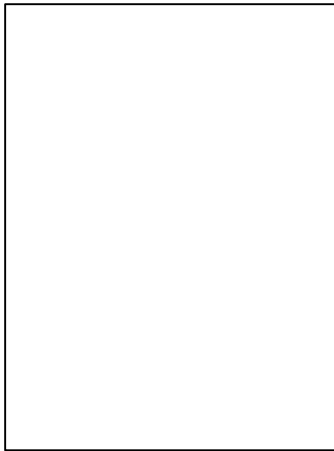
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"TTJTUBOU 1SPGFTTPS PG \$JWJM BOE &OWJSPONF

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DQG JRHV RXW RI KLV ZD\ WR PDNH DVVLJQPHQWV SXUSRVHIXO , DP Y  
DV D PHQWRU DQG ORRN IRUZDUG WR OHDUQLQJ PRUH IURP KLP WKURX

+H LV YHU\ GHGLFDWHG WR KLV UHVHDFK DQG WR KHOS KLV VWXGHQ  
XQGRXEWHGO\ FRQWLQXH WR LQVSLUH PDQ\ VWXGHQWV WR SDUWLFLSD



/DPDU 8QLYHUVLW\ SURYLGHG PH ZLWK WKH SHUIHFW SODWI  
XQGHUJUDGXDWH UHVHDFK DFWLYLWLHV RYHU WKH SDVW \HDUV  
KHUH DW /DPDU PDGH P\ MRE DV D PHQWRU HDVLHU ,Q DGGLW  
8QGHUJUDGXDWH 5HVHDFK &LYLO DQG (QYLURQPHQWDO (QJLQH  
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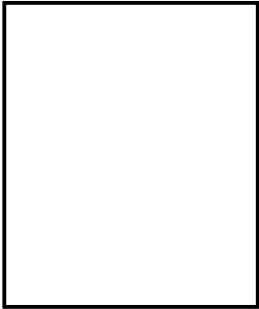
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RI 5DZ /DQGILOO /HDFKDW 8VLQJ \*DOGLHULD VXOSKXUDULD \$Q \$  
/HDFKDW 7UHDWPHQW™ :DWHU

7 6HOYDUDWQDP 0 +7DQ/ 5DQ 5DKPDQ 6 (QHUJ\ 5HFYHU\ IURP \$QD  
\$' &HQWUDWH XVLQJ DQ \$OJDO 6\ VWHP™ ,QWHUQDWLRQDO &RQI  
-DIIQD 6UL /DQND

\$ 5DKPDQ & 3DQ/ 5DQ 5DKPDQ 6 (YDOXDWLRQ RI \*DOGLHULD  
&KORUHOOD YXOJDULV IRU WKH %LRUHPHGLDWLRQ RI 3URGXFHG :D  
6 3DQ/ 'L[RQ 1DZD] \$ 5DKPDQ 7 6HOYDUDWQDP (YDOXDWLRQ  
IRU QLWURJHQ UHPRYDO DQG ELRPDVV SURGXFWLRQ IURP UDZ ODO

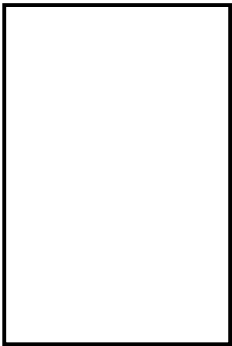
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/ +DVHOEDFK 1 \$OPHGLD +7DQ/ 5DQ 5DKPDQ 6 \$JUHJDWH 6WRUPZD  
,QLOWUDWLRQ %HG &DVH 6WXG\ ,QWHUQDWLRQDO /RZ ,PSDFW 'H



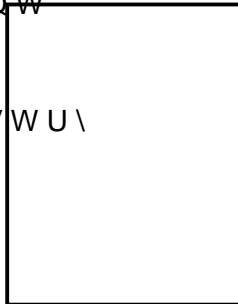
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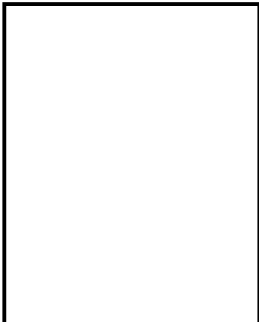
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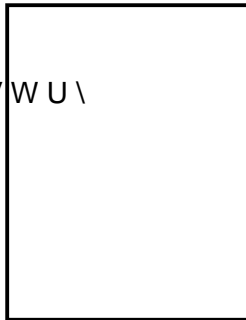
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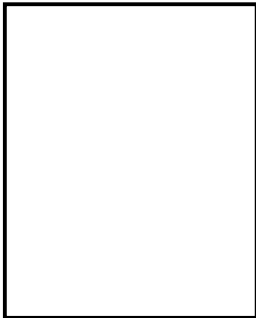
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&RPPXQLFDWLRQV 'LUHFWRU  
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0DMRU %LRORJ\



6HFUHWDU\  
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