

27 September - 1 Octo

2EMHFWLYHV

/HDUQ DERXW FOLPDWH FKDQJH DQG ZKHUH
WKH 8.V HPLVVLRQV FRPH IURP

([SORUH KRZ HPLVVLRQV FDQ EH UHGXFHG
ZLWK DQ HPSKDVLV RQ WUDQVSRUW

\$FWLYLW\ RXWOLQH

Use the [FOLQJ WR ÀJKW FOLPDWH FKDQJH](#). 3RZHU3RLQW
WR IDFLLOLWDWH GLVFXVVLRQ DURXQG FOLPDWH FKDQJH DQ
HPLVVLRQV 8VH WKH WHDFKHU SURPSW LI UHTXLUHG
3XSLOV ÀOO RXW WKH F\FOLQJ WR ÀJKW FOLPDWH FKDQJH
ZRUNVKHHW ZLWK OHDUQLQJV IURP WKH JURXS GLVFXVVLRQ
7KLV ZRUNVKHHW LQFOXGHV ZULWLQJ WKHLU RZQ FOLPDWH
6ROR JURXS DFWL

Both

Extension

3XSLOV PDNH D VKRUW YLGHR RU D SRVWHU F[SODLQLQJ
KRZ F\FOLQJ ÀJKWV FOLPDWH FKDQJH



Curriculum links

*HRJUDSK\ (QJ

7KH ZRUOG DURXQG)

Inspired by:

6RFLDO VWXGLHV 2 3
3ODFH (QYLURQPHQV

6XVWUDQV 6FKRRO 2IÀFHU

+XPDQLWLHV :DOHV



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&RQYHUVDWLRQ VWDUWHU WHDFKH
F\FOLQJ WR ÀJKW FOLPDWH FKDQJ

:HDWKHU DQG FOLPDWH

3XSLOV GLVFXVV WKH GLIIHUHQFH EHWZHHQ WKH WZR WHU

&OLPDWH FKDQJH

3XSLOV ZRUN LQ SDLUV WR FRPH XS ZLWK D GHÀQLWLRQ
RI WKH WHUP ¶FOLPDWH FKDQJH.

:KHUH GR RXU HPLVVLRQV FRPH IURP"

3XSLOV FUHDWH D PLQG PDS RI GLIIHUHQW HPLVVLRQ VRXU

3XSLOV GLVFXVV ZKHUH WKH 8.V HPLVVLRQ FRPH IURP
Tip ² EXQNHU IXHO LV DQ\ IXHO XVHG RQ ERDUG D VKLS

3XSLOV GLVFXVV ZKHUH WUDQVSRUW HPLVVLRQV FRPH IUR

+RZ FDQ ZH UHGXFH HPLVVLRQV"

*R EDFN WR WKH HPLVVLRQ VRXUFHV PLQG PDS ² SXSLOV
GLVFXVV ZKDW FRXOG EH GRQH DV LQGLYLGXDOV DQG DV D
JURXS WR UHGXFH HPLVVLRQV

3XSLOV GLVFXVV ZKDW ZRXOG PDNH WKH PRVW LPSDFW

3XSLOV GLVFXVV ZKDW WKH VRFLHW\ JRYHUQPHQW QHHG W

7KLV PDFKLQH ÀJKWV FOLPDWH FKDQJH

3XSLOV GLVFXVV KRZ VZLWFKLQJ PRGH RI WUDQVSRUW FRX
UHGXFH HPLVVLRQV

0\ &DUERQ SOHGJH

3XSLOV WR FRPH XS ZLWK D FDUERQ SOHGJH ² VRPHWKLQJ
WKH\ FDQ GR DV DQ LQGLYLGXDO FODVV VFKRRO WR UHGXF
FDUERQ IRRWSULQW (J ZDON LQVWHDG RI GULYH HDW OHV

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&\FOLQJ WR ÀJKW FOLPDWH FK

:KDW LV FOLPDWH FKDQJH"

| | | |
|--|-----|-----|
| :KHUH GR 8. HPLVVLRQV FRPH IURP " | | |
| 0DWFK XS WKH VHFWRU DQG WKH SHUFHQWDJH | 4% | 3% |
| \$JULFXOWXUH | 7% | 24% |
| %XLOGLQJV | | |
| %XQNHU)XHOV | 8% | |
| (OHFWULFLW\ +HDW | | |
|)XHO FRPEXVWLRQ | | |
| ,QG XVWU\ | 10% | |
| 0DQXIDFWXULQJ | | 23% |
| 7UDQVSRUW | | |
| Waste | 17% | |

:KHUH GR RXU WUDQVSRUW HPLVVLRQV FRPH IURP "

0DWFK XS WKH PRGH DQG WKH SHUFHQWDJH

\$YLDWLRQ GRPHVWLF
%XVHV FRDFKHV
Cars/taxis
HGVs
LGVs
5DLO
6KLSSLQJ GRPHVWLF
2WKHU

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:KDW FDQ ZH GR WR UHGXFH RXU HPLVVLRQV"

:KDW DUH WKH PRVW LPSRUWDQW WKLQJV \RX FRXOG
GR DV DQ LQGLYLGXDO WR UHGXFH HPLVVLRQV"

0\ &DUERQ 3OHGJH

, FRPPLW WR

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&\FOLQJ FORWKLQJ

/LVW WKH SURSHUWLHV \RX ZDQW \RXU F\FOLQJ FORWKLQJ
(J ZDWHUSURRI EUHDWKDEOH VWUHWFK\« «

8VH WKLW WDEOH WR FRPSDUH IDEULFV
(J \FUD FRWWRQ Q\ORQ ZRRO HWF

)DEULF

\$GYDQWDJH

'LVDGYDQWDJH

:KDW IDEULF LV EHVW IRU VXPPHU"

:KDW IDEULF LV EHVW IRU ZLQWHU"

/LVW DQ\ VSHFLDO IHDWXUHV \RX ZDQW \RXU F\FOLQJ FORW
,QFOXGLQJ IHDWXUHV WR LPSURYH YLVLELQJ\ RU FRSH ZLW

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%LNH SDUW ODEHOV

| | | | | |
|------------------------|----------------------------|---------------------------------------|---------------------|---------------------|
| 6HDW &ODPS | &KDLQ 6WD\ Front Hub | +HDG Tube | Fork &URZQ | +DQGOHEDUV |
| Suspension Forks | Front Hub | &KDLQ 6HW FKDLQULQJ,V DQG FUDQN | 5HDU HUDLOOHX | 6HDW 6WD\ Bridge |
| Drop-out / 5HDU (QG | Bottom %UDFNHW 6KHOO | Fork %ODGH | +HDGVHW | Tyre |
| 3HGDO | &KDLQULQJ,V | 5HDU Sprockets or &DVVHWH | 6HDW 6WD\ Rim | 6HDW Tube |
| 'RZQ Tube | Drop-out / Fork End | Stem | Rim | Front &KDQJHU |
| &KDLQ | 6HDW 3RVW | *HDU +DQJHU | Top Tube | Fork Column |
| *HDU /HYHUV | 6DGGOH | Spokes | &UDQN | %UDNH |

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5RXWH SODQQLQJ P\ F\FOH MRX

*RRJOH PDSV

7KUHH IHDWXUHV RI JRRJOH PDSV DUH

7KH ÀYH *RRJOH PDS OD\HUV DUH

5RXWH SODQQLQJ P\F\FOH MRXUQH

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+RZ QRUPDO LV P\ MRXUQH\ WR V
:RUNVKHHW

7LPH VSHQW WUDYHOLQJ WR VFKRRO FDQ WKH PRVW ERULG
SDUW RI \RXU GD\ 2Q WKH RWKHU KDQG LW FDQ DOVR EH
RXWVLGH FDWFK XS ZLWK \RXU IULHQGV DQG VHH PRUH RI
OLYH 7KH ZD\ SHRSOH WUDYHO WR VFKRRO YDULHV DOO R
IURP SXEOLF EXVHV GRPLQDWLQJ LQ /RQGRQ WR SULYDWH
UHPRWH UXUDO DUHDV

<RX DUH RQH RI PLOOLRQ VFKRRO FKLOGUHQ LQ WKH 8.
LQ (QJODQG LQ :DOHV LQ 6FRWODQG
LQ 1RUWKHUQ ,UHODQG PDNLQJ D MRXUQH\ IURP KRPH WR
DQG EDFN HDFK GD\

+RZ GR \RX WKLQN \RXU VFKRRO MRXUQH\ FRPSDU

+RZ GR \RX WUDYHO"

:KDW·V WKH PRVW FRPPRQ IRUP RI WUDYHO WR VFKRRO DF
8VLQJ WKH QXPEHUV EHORZ HVWLPDWH ZKLFK SHUFHQWDJ

1% 2% 4% 11% 37% 43%

%LF\FOH

Car / Van

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