## Little Dots in Uniform Motion

INSTRUCTIONS: Use the techniques developed in Little Dudes 1 and Little Dudes 2 to graph the positions and velocities of the little dots shown.

## $00: 00$


$00: 02$

$00: 04$

$00: 06$

$00: 08$


| t (s) | 0 |  | 2 |  | 4 |  | 6 |  | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $x(m)$ | 5 |  | 2 |  | -1 |  | -4 |  | -7 |
| $v(\mathrm{~m} / \mathrm{s})$ |  | -1.5 |  | -1.5 |  | -1.5 |  | -1.5 |  |
| tmid (s) |  | 1 |  | 3 |  | 5 |  | 7 |  |


$00: 02$

$00: 04$

$00: 06$

$00: 08$


| t (s) | 0 |  | 2 |  | 4 |  |  | 6 |  | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| x (m) | 0 |  | 2 |  | 4 |  |  | 4 |  | 4 |
| $v(\mathrm{~m} / \mathrm{s})$ |  | 1 |  | 1 |  |  | 0 |  | 0 |  |
| $t_{\text {mid }}(\mathrm{s})$ |  | 1 |  | 3 |  |  | 5 |  | 7 |  |

0000

$00: 02$

$00: 04$


0006


0008


| $\mathrm{t}(\mathrm{s})$ | 0 | 2 | 4 | 6 | 8 |
| ---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{x}(\mathrm{m})$ | -10 | -5 | 0 | 5 | 10 |
| -10 |  |  |  |  |  | $\left.\mathrm{~m} / \mathrm{s}\right)$

tmid $(\mathrm{s})$
$00: 00$

$00: 02$

$00: 04$

$00: 06$

$00: 10$


| t (s) | 0 |  | 2 |  | 4 |  | 6 |  |  | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $x$ (m) | 10 |  | 10 |  | 10 |  | 5 |  |  | 0 |
| v (m/s) |  | 0 |  | 0 |  | -2. |  |  | 2.5 |  |
| tmid (s) |  | 1 |  | 3 |  | 5 |  |  | 7 |  |

POSITION vs. CLOCK READING


VELOCITY vs. CLOCK READING

| 5 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 0 | $\bigcirc$ |  | 0 |  | $\square$ |  |  |  |  |  |
|  |  |  |  |  |  | --- |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| - |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| - |  |  |  |  | $\bigcirc$ |  | $\bigcirc$ |  |  |  |
|  |  |  |  |  |  |  | $\vartheta$ |  |  |  |
| $\overline{3}$ |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| $\overline{4}$ |  |  |  |  |  |  |  |  |  |  |
| -5 |  |  |  |  |  |  |  |  |  |  |

