Motion Graph Story Book Project

Create a storybook, cartoon, animation or screen shots displaying constant velocity motions.

Your project must include:

**Simple story plotline with at least 5 different motions.**

“**The Hungry Bug**” **Note: Only 3 motions are displayed in this story!**

Surely you can come up with something more creative than this.

Darcy the dung beetle was a happy little bug. One day, he decided to take a walk to the nearby dump. He left his home and crawled at a calm, constant pace. He sat down and remained there at the dump and enjoyed his meal most of the afternoon. After he was finished, he remembered an appointment with his friend. He quickly returned in the direction of his home, but passed his house and continued on until he reached his friend’s home.

Two motion graphs and a motion map illustrating the movement of the character in the story are needed in addition to the story and at least one illustration

**Required Components**

- **Story**
- **Position-time graph**
- **Velocity-time graph**
- **Motion Map**
- **Illustration(s)**

**Scoring Rubric**

<table>
<thead>
<tr>
<th>Logistics</th>
<th>Motions</th>
<th>Story Plot</th>
<th>Illustration</th>
<th>Position Graph</th>
<th>Velocity Graph</th>
<th>Motion Map</th>
<th>Care / Creativity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Very late</td>
<td>Less than 3 Motions</td>
<td>Not present</td>
<td>Not present</td>
<td>Not present</td>
<td>Not present</td>
<td>Sloppy, unfinished</td>
</tr>
<tr>
<td>1</td>
<td>Late</td>
<td>Only three motions</td>
<td>Plot confusing and disorganized</td>
<td>Not clear what illustration is displaying</td>
<td>Lacks more than one component or makes one mistake</td>
<td>Lacks more than one component or makes one mistake</td>
<td>Lacks more than one component or makes one mistake</td>
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<tr>
<td>2</td>
<td>On time but with some teacher assistance</td>
<td>Only four motions</td>
<td>Plot confusing without graphs</td>
<td>Illustration is clear, but sloppy</td>
<td>Lacks one component or makes one mistake</td>
<td>Lacks one component or makes one mistake</td>
<td>Lacks one component or makes one mistake</td>
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| 3         | On time and without any teacher assistance | Required five motions | Clear and understandable even without the graphs | Illustration is clear and displays something relevant to the plot | Includes title, labels, units. Displays motion clearly, and matches plot. | Includes title, labels, units. Displays motion clearly, and matches plot. | Includes title, labels, units. Displays motion clearly, and matches plot. | Care was clearly put into the project. (Extra Special presentation, +2)

**Total: _____/25**

There will be up to a five point penalty if the story or illustrations are in bad taste or offensive.

BeCreative!!

<table>
<thead>
<tr>
<th>Pts</th>
<th>x (m)</th>
<th>t (s)</th>
<th>v (m/s)</th>
<th>t (s)</th>
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