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| |  |  |  | | --- | --- | --- | | **Worksheet for Lab on Friction** | **Name** |  | |  |  |  | |  | **Date** |  | |
|  |
| |  |  |  | | --- | --- | --- | |  | **Partner #1** |  | |  |  |  | |  | **Partner #2** |  | |
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| **Experiment 1: Kinetic friction, horizontal track** |
|  |
| Attach Table 1, done in Excel, with graph on the same page. |
|  |
| Fill in your result for : |
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| |  |  |  | | --- | --- | --- | |  |  |  | |
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| **Experiment 2: Static Friction, horizontal track** |
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| Attach Table 2, done in Excel, with graph on the same page. Pick a suitable title *different*  from Experiment 1. Fill in your result for |
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| |  |  |  | | --- | --- | --- | |  |  |  | |
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| **Experiment 3: Kinetic friction, inclined track** |
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| Attach Table 3, done in Excel, with graph on the same page. Make sure the axis labels are at  the edges of your plot. Fill in your result for : |
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| |  |  |  | | --- | --- | --- | |  |  |  | |
|  |
| Find the percentage difference between obtained in Exp 1 and in Exp 3: |
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|  |
| |  |  | | --- | --- | | **%diff** |  | |
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| **Over 🡺** |
| Which coefficient is larger: the coefficient of static friction, or the coefficient of kinetic friction?  Think about the shape and texture of the materials involved at a microscopic scale, and try to give  your own explanation of why this is so. |
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