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|-----------------|------------------------------|
| <b>Match-Up</b> | <b>Mechanics Definitions</b> |
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|           |                         |          |                                                                                                   |
|-----------|-------------------------|----------|---------------------------------------------------------------------------------------------------|
| <b>1</b>  | Light Object            | <b>A</b> | A rigid object such as a beam which is one-dimensional; assumed mass is distributed evenly        |
| <b>2</b>  | Particle                | <b>B</b> | The force experienced by an object as it moves through air; assumed to be negligible              |
| <b>3</b>  | Smooth Surface          | <b>C</b> | A thin length of material that does not stretch under load                                        |
| <b>4</b>  | Wire                    | <b>D</b> | A particle with a hole in which moves freely along a wire or string                               |
| <b>5</b>  | Rod                     | <b>E</b> | An object with an area but no thickness, its mass is assumed to be distributed across the surface |
| <b>6</b>  | Inextensible String     | <b>F</b> | A surface where there is no friction between it and any object in contact with it                 |
| <b>7</b>  | Rough Surface           | <b>G</b> | The uniform force of attraction between all objects which acts vertically downwards               |
| <b>8</b>  | Lamina                  | <b>H</b> | An object with negligible dimensions; its mass is assumed to be concentrated at a single point    |
| <b>9</b>  | Smooth and Light Pulley | <b>I</b> | A support from which a body is suspended; assumed to be dimensionless and fixed                   |
| <b>10</b> | Uniform Body            | <b>J</b> | A rigid thin length of metal which is treated as one-dimensional                                  |
| <b>11</b> | Air Resistance          | <b>K</b> | An object with a comparatively small mass; assumed to have a zero mass                            |
| <b>12</b> | Bead                    | <b>L</b> | A massless wheel which carries a rope, where the tension in the rope is the same on either side   |
| <b>13</b> | Gravity                 | <b>M</b> | An object where mass is distributed evenly, assumed to be concentrated at the centre of mass      |
| <b>14</b> | Peg                     | <b>N</b> | A surface where there is a frictional force between it and any object in contact with it          |

|          |          |          |          |          |          |          |          |          |           |           |           |           |           |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> |
| <b>K</b> | <b>H</b> | <b>F</b> | <b>J</b> | <b>A</b> | <b>C</b> | <b>N</b> | <b>E</b> | <b>L</b> | <b>M</b>  | <b>B</b>  | <b>D</b>  | <b>G</b>  | <b>I</b>  |