**Name:**

**Date:**

**School:**

**Facilitator:**

6.01 Force Diagrams

**Complete a force diagram for all 8 situations listed below. You may draw and label them by hand and scan them before turning them in. Or you may use a built-in shape creator in your word processing software.**

1. Sarah’s book is at rest on her desk.

|  |
| --- |
| *Insert force diagram here.* |

1. The trapeze artist, who is sitting on the bar, is suspended motionless from the ceiling by two ropes.

|  |
| --- |
| *Insert force diagram here.* |

1. The starling egg is knocked out of its nest and is in free-fall toward the ground.

|  |
| --- |
| *Insert force diagram here.* |

1. Katherine pushes her Physical Science book in order to move it across her desk at constant velocity.

|  |
| --- |
| *Insert force diagram here.* |

1. Matthew skydives with a constant velocity. Consider air resistance.

|  |
| --- |
| *Insert force diagram here.* |

1. Tito, the flying squirrel, is gliding (no wingflaps) from his perch to the ground at constant velocity. Consider air resistance.

|  |
| --- |
| *Insert force diagram here.* |

1. Lanie pushes her Physical Science book in order to move it across her desk with a rightward acceleration.

|  |
| --- |
| *Insert force diagram here.* |

1. Beth’s purse hangs from her shoulder by two straps.

|  |
| --- |
| *Insert force diagram here.* |