Lesson 2 Newton's First Law

Predict three facts that will be discussed in Lesson 2 after reading the headings. Record your predictions in your Science Journal.

--- Main Idea --- ----- Details -----

Identifying Forces

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Draw the described forces. Use labeled arrows to indicate the forces on a box, and show the net forces in the column to the right.

| Description | Drawing | Net force |
|---|---------|---------------|
| 1. A force of 200 N to the left and another force of 50 N to the left | | 250 N Left |
| 2. A force of 100 N to the right and a force of 80 N to the left | | 20 N Right |
| 3. A force of 180 N to the right and a force of 180 N to the left | | Zero N |

Identify the forces in the table above as balanced forces or unbalanced forces.

- unbalanced
- unbalanced
- balanced

| Main Idea | Details | |
|--|---|---------------------|
| Newton's First | Summarize Newton's first law of motion. an object at rest will stay at rest If the net force on an object in motion an object is zero, will stay in motion | |
| Law of Motion I found this on page | | |
| rround this on page | | |
| I found this on page Contrast the motion of objects ac unbalanced forces. | | balanced <i>and</i> |
| | object's motion +balanced | . forces |
| | = <u>unchanged</u> velocity | |
| | object's motion + <u>unbalanced</u> | forces |
| | = changed <u>velocity</u> | |
| I found this on page | Explain the effect of inertia on objects at rein motion. to resist change (LAZY) | est and objects |
| Why do objects stop moving? I found this on page | Summarize how friction and inertia act sliding on a flat surface. Interiacontinues motion | on an object |
| | Frictionslows motion | |
| | c at the objects around you that are at rest. Explain of zero as opposed to no forces at all. Forces stop motionGRAVITYFRICTION | |
| | | |