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**Forces**

**Lesson:** F1-1 What forces affect Earth every day?  
**Author:** Mr. Hilvers  
**Endorsed:** St. Lawrence School  
**Level:** Grade 5

**Lesson Objective**

Describe what forces are and what they do.

Explain how the forces of friction, magnetism and gravity act in our everyday lives.

**Teaching Procedure**

Day 1: Read/discuss p. F6-7.

Day 2: Read/discuss p. F8-9

**Homework Assignment**

Worksheet WB294

**Teaching Procedure**

Day 1: Do activity, p. F32-33. Read/discuss p. F34-35.

Day 2: Read/discuss p. F36-37.

**Lesson:** F1-2 What are balanced/unbalanced forces  
**Author:** Mr. Hilvers  
**Endorsed:** St. Lawrence School  
**Level:** Grade 5

**\*\*Correct Homework, if any\*\*****Lesson Objective**

Describe balanced and unbalanced forces.

Define acceleration.

Calculate net force when more than one force acts on an object.

**Teaching Procedure**

Day 1: Read/discuss p. F12-13.

Day 2: Read/discuss p. F14-15. With student volunteer, demonstrate net force concepts:

- (1) Have student walk into teacher hand and stop. Student stops because force of student equals force of teacher in opposite direction.
- (2) Have student walk, then give him/her a push from behind. Student walks faster because teacher force is added to student force in same direction.
- (3) Have student walk past teacher, teacher gives him/her a shove from the side. Student changes direction but not speed.

**Homework Assignment**

Worksheet WB299

**Lesson:** F1-3 What is work & how is it measured?  
**Author:** Mr. Hilvers  
**Endorsed:** St. Lawrence School  
**Level:** Grade 5

**\*\*Correct Homework, if any\*\*****Lesson Objective**

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Define work and how it is measured.  
Define power and explain how it is measured.  
Describe what machines do.

### Teaching Procedure

Day 1: Do 'Investigate' activity, p. F16-17. Announce and describe simple machine project, show hat tipper example. Distribute worksheet WB306.



Microsoft Word  
Document

Day 2: Read/discuss p. F18-19. Assign worksheet WB305.

Day 3: Read/discuss p. F20-23

### Homework Assignment

Worksheet WB305

**Lesson:** Simple Machine Project  
**Author:** Mr. Hilvers  
**Endorsed:** St. Lawrence School  
**Level:** ...

This is a short description of this lesson

### Teaching Procedure



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