## Gears Pre-Quiz Answer Key

1. **Gears affect:**
	1. **Speed of rotation only**
	2. **Ability to pull or lift only**
	3. **Work done**
	4. **Both speed and ability to lift or pull**
2. **For a truck that needs to pull a lot of weight:**
	1. **Use a high gear ratio (wheels will spin slowly)**
	2. **Use a low gear ratio (wheels will spin quickly)**
	3. **The gear ratio doesn't matter**
	4. **No gears should be used at all**
3. **Using a simple machine affects the total amount of work done.**
	1. **true**
	2. **false**
4. **Gears are useful.**
	1. **true**
	2. **false**
5. **Gears are used in engineering designs to: (select all that apply)**
	1. **help lift a heavy load**
	2. **make things look nice while spinning**
	3. **make wheels spin faster**
	4. **measure speed**