

Rock-it Newton

lyrics by Barbara Williams

title by Harold Williams

*song may be sung to the tune
of the Marine Hymn*

As we take off in our rocket
There are three things we must know.
They are the Laws of Newton,
And they make our rocket go.
When we're sitting on the launchpad,
And we hear them counting down
Without the Laws of Newton,
We'd just stay on the ground.

Rock-it Newton
Second stanza
First Law of Newton

When we're sitting on the launchpad,
The First law makes it clear,
That until some force moves us
Then we will just stay here.
If we're flying in a straight line,
We can't stop or turn or slip
Unless a force is pushing
Or pulling on our ship

Rock-it Newton
Third stanza
Second Law of Newton

The Second law says fast things
Push harder than the slow,
And heavy things push harder
Than lighter things, you know.
Whichever way they push us,
That's the way we go,
And just how hard they're pushing
Determines fast or slow.

Rock-it Newton
Fourth stanza
Third Law of Newton

The Third law keeps things equal,
So it all evens out.
Every action makes things happen
Of that there is no doubt.
Each reaction has the same force
as the force that started it,
in the opposite direction,
Like billiard balls that hit.