FIRST LESSONS ON NATURAL PHILOSOPHY, FOR CHILDREN

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First Lessons on Natural Philosophy, for Children by Miss Mary A. Swift

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MISS MARY A. SWIFT

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FIRST LESSONS

ON

NATURAL PHILOSOPHY,

FOR CHILDREN.

PART SECOND.

BY MISS MARY A. SWIFT.

STERECTYPED EDITION.

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> RICHARD H. HOBBE, Harderl, Cons.

THE favorable reception which has been given to the "First Part of Lessons about Natural Philosophy," has encouraged the writer to offer to parents and teachers of primary schools, the "Second Part," hoping that it may prove useful to those for whom it is designed.

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LESSON FIRST.

WHAT IS NATURAL PHILOSOPHY?
NATURAL PHILOSOPHY EXPLAINS THE REASONS
OF THINGS, AND TELLS US ABOUT THE PROPER
TIES OF BODIES.

What are Bodies?

Every thing we see is a body.

You have learned about the Attraction of Cohesion—is it found in all bodies?

It is; but it is stronger in some bodies, than it is in others.

In what bodies is it the strongest? In hard bodies.

Do we call hard bodies by any other name? We call them solid bodies, or SOLIDS.

Can you mention some solid bodies?

Wood, and stone, and iron, are solid bodies.

Are cork and sponge solid bodies?

They are.

But they are soft bodies—are soft bodies solids?
You said hard bodies are solids, how then cap
soft bodies be solids?

Every body that is not fluid is solid.

What bodies are fluids?

Water, milk, and oil are called fluids.

How do you know that cork and sponge and other soft bodies are not fluids?

I can make a cork and sponge into any shape I please, and they will remain in that shape, but water and other fluids will not.

If I should place a solid and a fluid upon the table, how could you tell which was a solid?

The solid body would remain where you put it.

What would the fluid do?

It would flow on the table, or down from it on the floor.

What do you mean by a fluid?

Something that flows, and will not keep its place, unless it is confined in a vessel.

Do all fluids flow like water?

Not all; there are some fluids that are different from water or oil.

Then how many kinds of bodies are there?
Two.

What are their names?

Solids and Fluids.

Why are some solids hard, and other solids soft? Because the attraction of cohesion is stronger in hard bodies than it is in soft bodies.

What do you mean by the attraction of cohesion? The attraction of cohesion is the power of

sticking together which God has given to little particles of bodies.

What do we call hard solid bodies?

We call them dense bodies.

What is density?

Hardness.

What bodies are dense?

Those bodies are dense whose particles are close together.