

SCIENCE EXPERIMENT FOR KIDS

In present age, various things have changed from being employed to becoming unemployed, from having a shelter to struggling for a shelter from living a normal to mask life, as well the most affected part is the physical education to online education i.e. the acceleration of digital learning.

Although COVID19 had affected the lives of little toddlers in their education. In this crucial time, all of us must give a single direction or roadmap which will help our children to focus on a particular direction and uniquely develop their skills. As schools all over the world have been shut down, there is a lack of scope for children to learn new/modern activities "**Physically**" & "**Practically**" than learning them through the digital medium. So here are we to let your child learn in a fun & unique way.

We at _____ have developed an idea of learning science & making your child fit to face this competitive world with various fun activities, different experiments by observing them and relating them to the present things happening in the surroundings. Motor skills are essential for your child's physical development and movements. These motor skills are used in day-to-day lives. Motor skills and motor control begin developing immediately after birth, and it progresses as children grow. Typically the motor skills are differentiated into two groups:

• Fine motor skills

Fine motor skills include the small muscles of the body that enable functions such as writing, grasping tiny things, and tying clothes.

During your child's first year of life, they will develop a number of fine motor skills.

For instance, a newborn typically has a primitive hand grasp and by 2 months of age they can hold a rattle when it's placed in their hand.

Examples

1. 6 - 12 months

- a) Begin to grasp and hold onto objects.
- b) Uses a raking grasp to move objects with fingers.
- c) Looking for one object while holding another.
- d) Pokes at objects using their index finger.

2. 1 - 4 years

- a) Building a tower of three small blocks.
- b) Bringing a spoon towards mouth.
- c) Stringing 3-4 large beads.
- d) Holding a crayon with thumb and fingers.
- e) Holding a pencil with thumb and fingers on opposite sides of the pencil.
- f) Tracing on thick lines.

• Gross motor skills

Gross motor skills are abilities typically acquired during childhood as part of a child's motor learning. By the time they are two years old, almost all children are able to stand, walk, run, climb stairs, etc. These skills are built, improved, and better controlled throughout early childhood.

Examples

- a) Randomly move arms and legs.

- b) Start rolling back to front and visa versa.
- c) Reach out for toys, using left or right hand and puts toys in mouth.
- d) Pull to stand while holding onto furniture.

1. 1 - 4 years

- a) Sitting, crawling or walking independently.
- b) Walking while holding a toy.
- c) Walking up and down steps (with support).
- d) Picking up toys from the floor without falling over.
- e) Climbing on jungle gym and ladders.
- f) Catching a ball (using the whole body, not just arms)

For kids of all ages, the benefits of the experiments are enormous. Performing these scientific activities helps your child develop their gross motor skills, fine motor skills, planning & problem-solving ability. It also builds curiosity in them for the upcoming activities and new ways of asking and answering the question. These activities are going to be held with home based material which is used in our day-to-day routine. The categories are going to be differentiated according to age groups of 0-2years, 2-4 years, 4 plus years.

Conclusion:

You may be wondering would it be fruitful for kids who are below 5years? Yes, absolutely this is the golden age for your child to learn, where they have the highest abilities to observe things around, observing faces of all the species, responding to voices, listening to sounds and most importantly exploring. Between birth to the age of 4 years, a child learns at speed unmatched for the rest of his/ her life.

The experiments have been designed keeping in mind not just the physical development but with their mental, emotional and social development. There are going to be variations in every experiment with lots of fun and magic. Along with the fun & magic there are going to be a lot of surprises at the end as well. So are you all excited about the magical experiments..??