

How to sit at the computer: Ergonomics for kids doing schoolwork at home



#homeschooling #computer ergonomics #COVID
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Oh my aching back...

Right now, with schools closed, kids of all ages are doing schoolwork at home. Technology has allowed continuation of learning and even face-to-face check in with teachers. But it also poses some challenges. School classrooms are designed for children; our kitchen tables are not. How to sit at the

computer? Just as we require ergonomic workstations for our jobs; we need to consider proper fit and alignment for our children as they learn virtually. The following are basic ergonomics for kids doing schoolwork from home that can prevent muscle aches and fatigue.

Where to place the computer screen:

Place the computer screen directly in front of your child with the eyes level with a spot about 2-3" below the top of the screen. In addition, place the keyboard so that the upper arms and shoulders are relaxed. The forearms should be parallel to the floor and the elbow bent less than 90 degrees. The chair should have back support and allow the thighs to be supported parallel with the floor. Knees should also be bent to 90 degrees or a bit less with feet supported. This can be a challenge for our elementary school kids who are trying to work at home. The Canadian Safety Council suggests: "choose a chair that places the child at the proper height in relation to the equipment. If that means a higher chair, provide a footrest to support the feet and a pillow to support the back."

How can you adjust the chair?

Chairs with adjustable seat and footrest heights are great for this. If you don't have an adjustable chair, you may need to create a footrest out of a box, block or storage crate. Also, since many children are using laptops, it is difficult to position both the screen and keyboard appropriately; it may be best to attach a separate monitor at the right height once the keyboard is set for proper arm and body position.

Avoid back and neck pain:

If children are using an iPad or reading a textbook, an angled book holder may help with proper positioning to avoid back and neck pain. We have cookbook holders for a reason!

If your child is doing lots of writing or drawing:

An angled writing surface will help with fatigue and proper support. There are quite a few child sized desks available with a surface that raises to an angle. If your child is a wiggler; consider a ball chair with an appropriate height table that allows for that 90-90-90 ankle, knee, hip alignment, or consider using a standing desk. In each case, the keyboard, mouse and screen still need to be adjusted for alignment as above.

The most important thing you can do is make sure your kids take a break and MOVE every 30 minutes according to both the Cornell University Ergonomics Web and Canada Safety Council. Active breaks are necessary not just for the body, but for the eyes as well. The best ergonomics for kids doing schoolwork at home cannot substitute for these breaks.

Here are some ideas for quick movement breaks to keep the aches and pains away:

1. Stand and stretch arms up overhead. Grasp hands interlocking fingers, flip palms up to the ceiling and stretch.
2. Bring arms behind your back at hip height, grasp hands or hand to wrist and try to pull shoulder blades down and together.
3. Stand with hands against a wall, place one leg back with knee straight and foot flat on the floor. Keeping your body straight like a board, lean into the wall and stretch the back of the calf.
4. If you have a yoga ball, lie back over the ball with feet flat on the floor, raise your arms out to the sides like a "T" and take some deep breaths.
5. Go outside in the yard and play!
6. No yard? Raining? Have a dance party or play "Simon Says."

Stay home. Stay safe... and keep moving.

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