Repurposed Tire Project

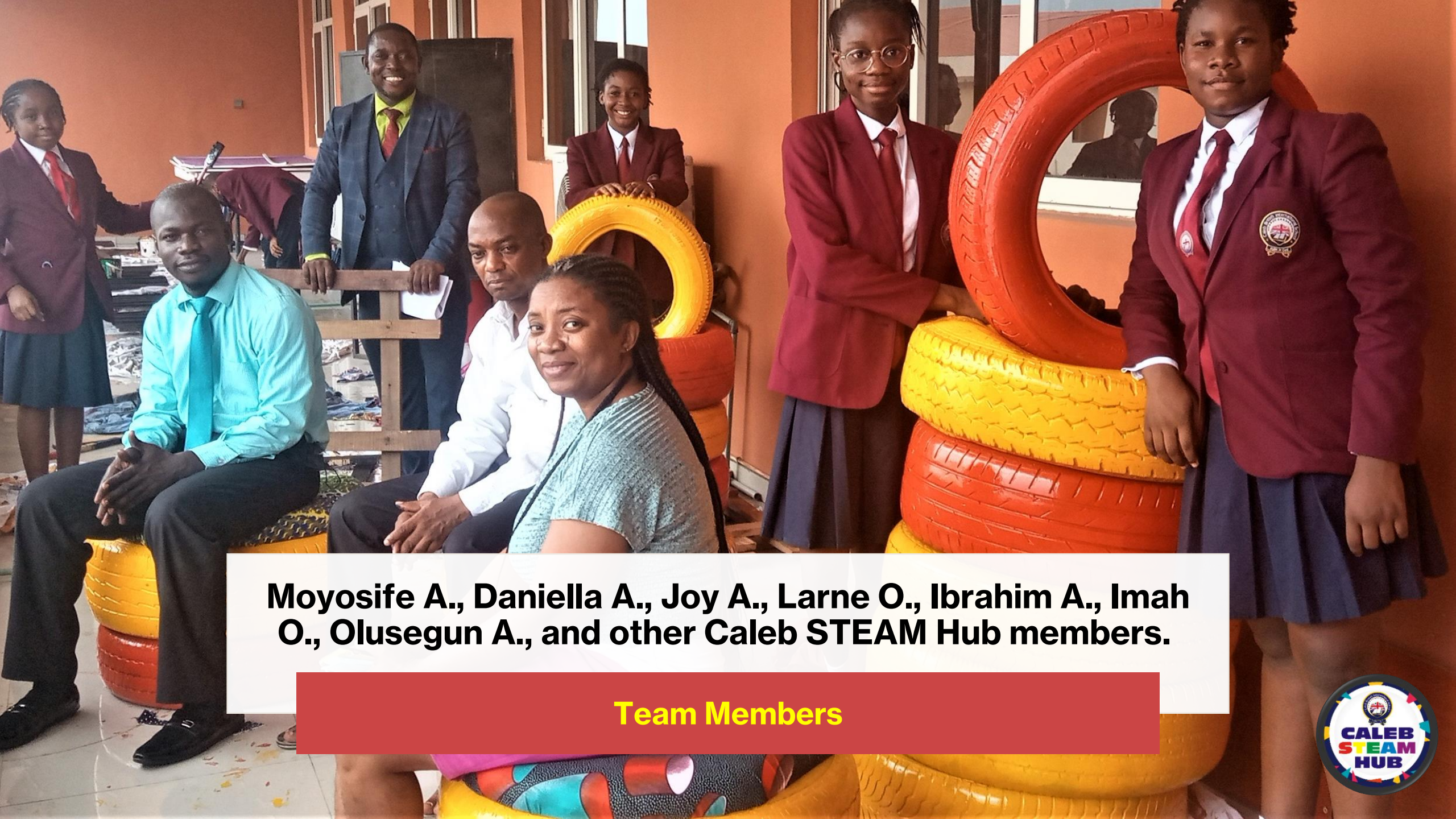
CALEB STEAM HUB

13 CLIMATE ACTION

How can we reduce the numbers of discarded tires ending up in landfills?

Caleb British International School, Lagos, Nigeria || https://linktr.ee/calebsteamhub

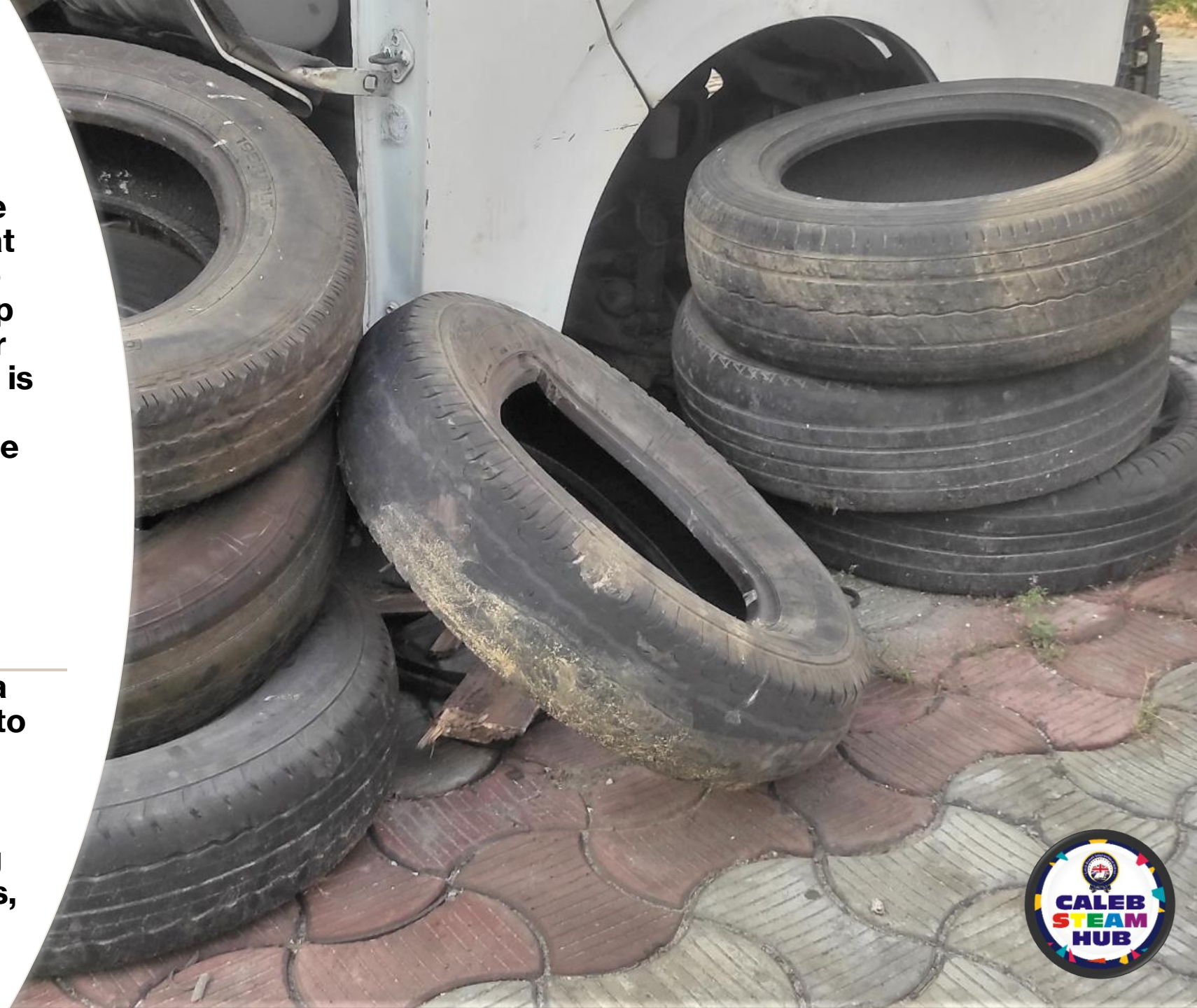
Coordinated by Olusegun Adeniyi



Moyosife A., Daniella A., Joy A., Larne O., Ibrahim A., Imah O., Olusegun A., and other Caleb STEAM Hub members.

Team Members

Improper tire disposal can create a myriad of health and safety problems. Fires have erupted in tire piles, lasting for weeks or months at a time and releasing chemicals into the air and ground. Tire also take up lots of space in landfills due to their round, hollow shape. Landfill space is a finite resource, so eliminating big bulky items that take up more space than necessary leaves space for other things that can't be easily recycled. When tires pile up in landfills or junkyards, they can release chemicals into the air, ground, and water that alter the ecosystem. Just sitting in the sun, a waste tire releases methane gas into the air. This greenhouse gas increases our carbon footprint and can contribute to climate change. Tire dumps often become breeding grounds for vermin and mosquitoes, which can carry diseases.



We have discovered that we can help minimize climate impacts through reuse and recycling. The more we recycle, the less garbage ends up in our landfills. By reusing aluminum, paper, glass, plastics, and other materials, we can save production and energy costs, and reduce the negative impacts that the extraction and processing of virgin materials has on the environment.
The greatest environmental benefit of recycling is the conservation of energy and natural resources and the prevention of pollution that is generated when a raw material is used to make a new product. By recycling we are saving energy in addition to conserving resources and reducing pollution
We have also learned that by using recycled materials instead of trees, metal ores, minerals, oil and other raw materials harvested from the earth, recycling-based manufacturing conserves the world's scarce natural resources. This conservation reduces pressure to expand forests cutting and mining operations.

Tire recycling has been beneficial to the environment in more ways than one. Among the many environmental benefits of this process are:

- **Conserve landfill space**

Because of their round and hollow shape, tires can take up significant space in landfills.

- **Prevent diseases caused by pests**

Discarded old tires left in backyards, empty lots, and riverbeds are not only an ugly sight; these also serve as homes to rodents and insects that can carry diseases.

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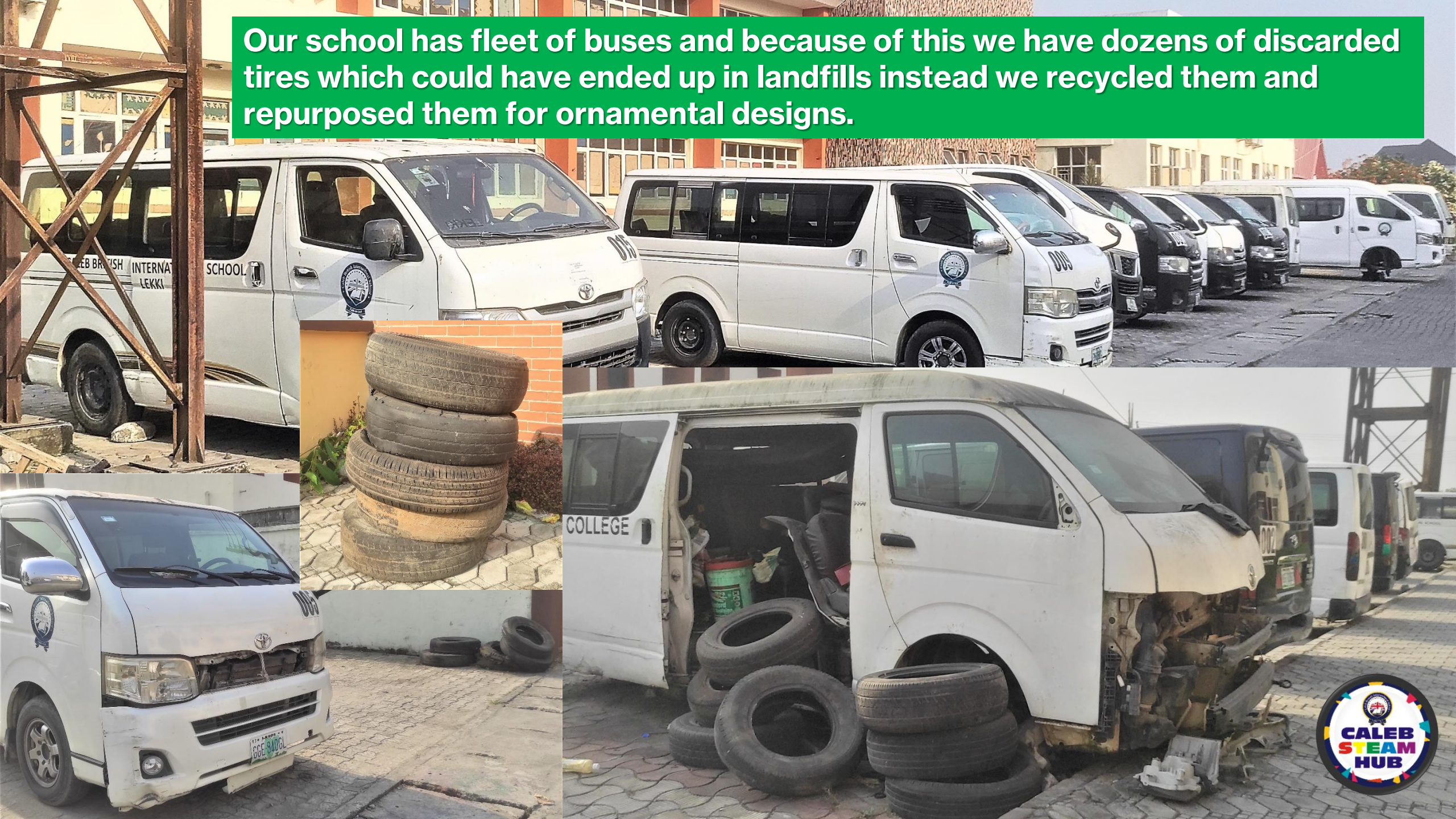
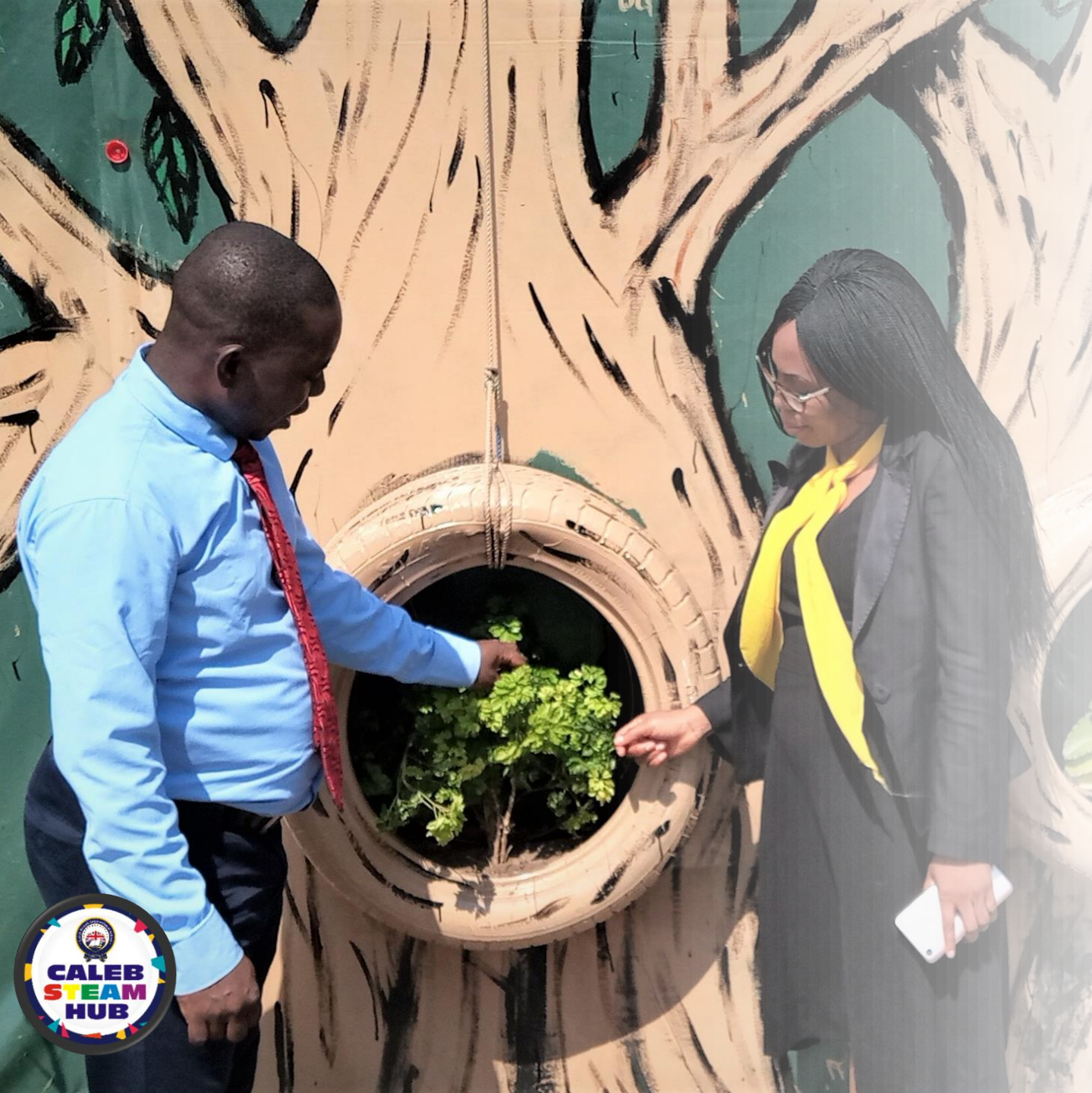
- **Prevent pollution caused by tire fires**

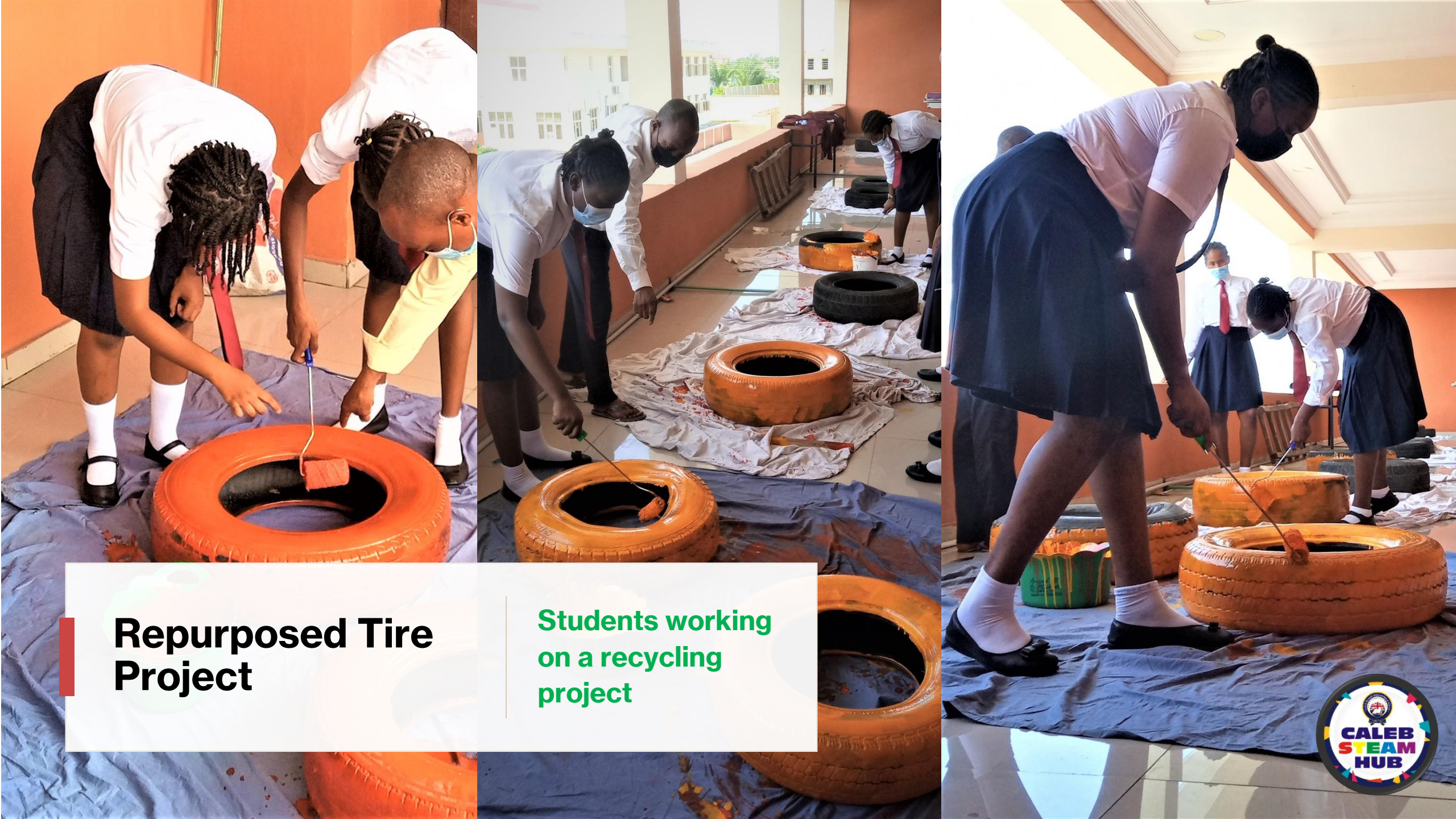
Old tires sitting in empty lots are also prone to fires.

Our school has fleet of buses and because of this we have dozens of discarded tires which could have ended up in landfills instead we recycled them and repurposed them for ornamental designs.





Tire recycling is so important because it conserves land space, creates new products, prevents the spread of disease to a certain extent, creates jobs, and is most importantly good for the planet. As stewards of the environment, we have continued to preserve and protect our resources for ourselves and for future generations through recycling.



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Students working on a recycling project

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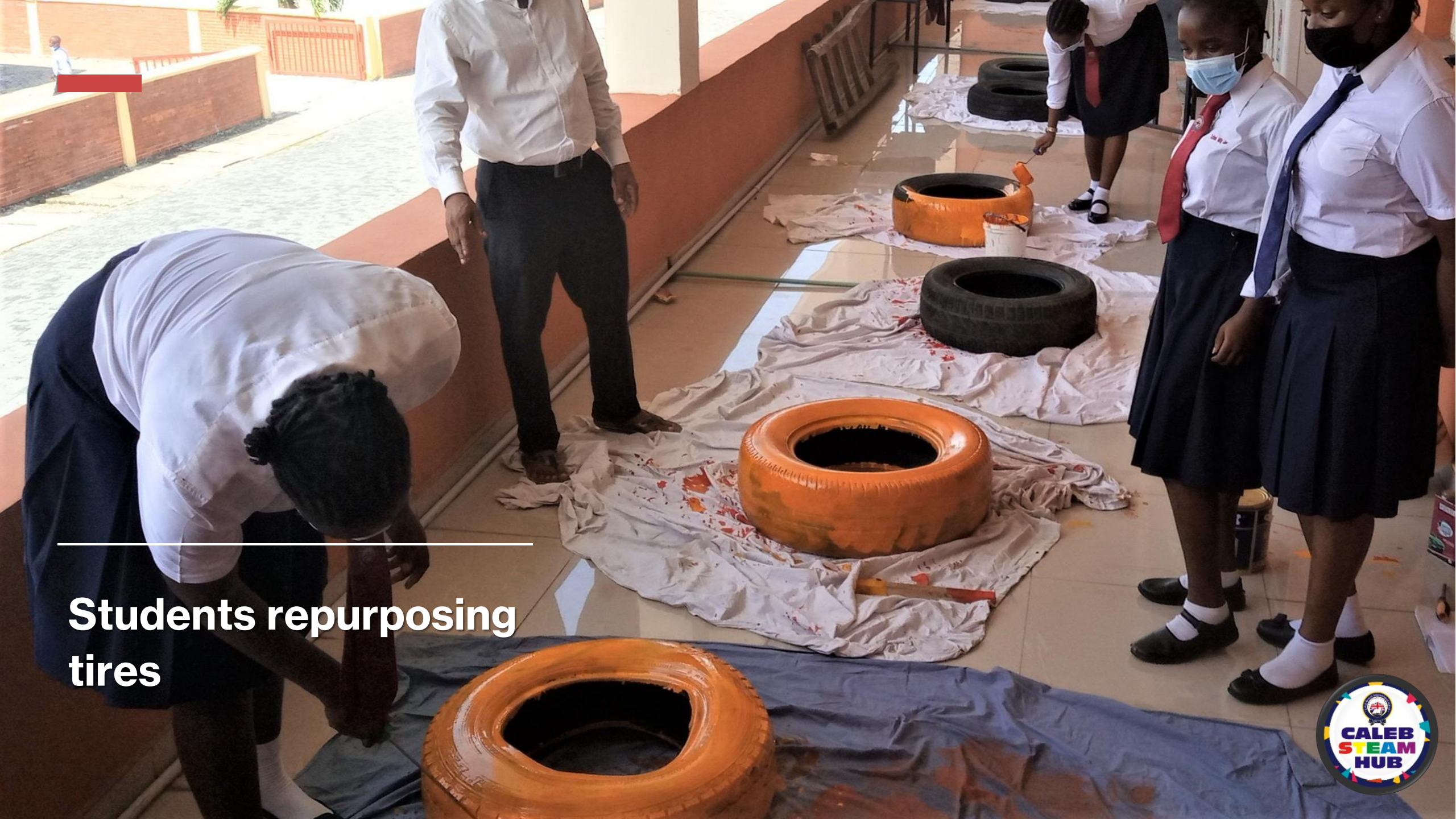
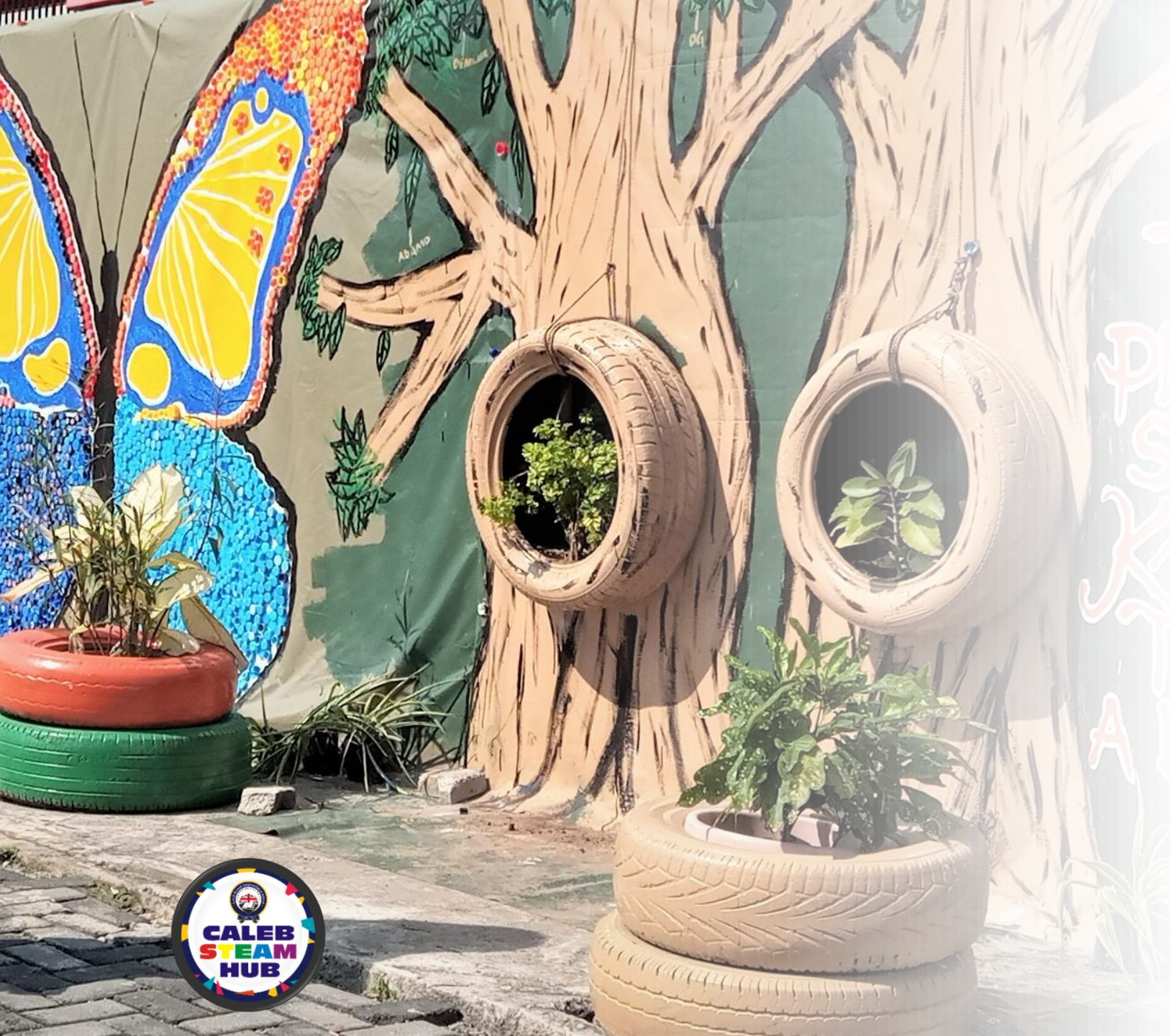


Students repurposing tires



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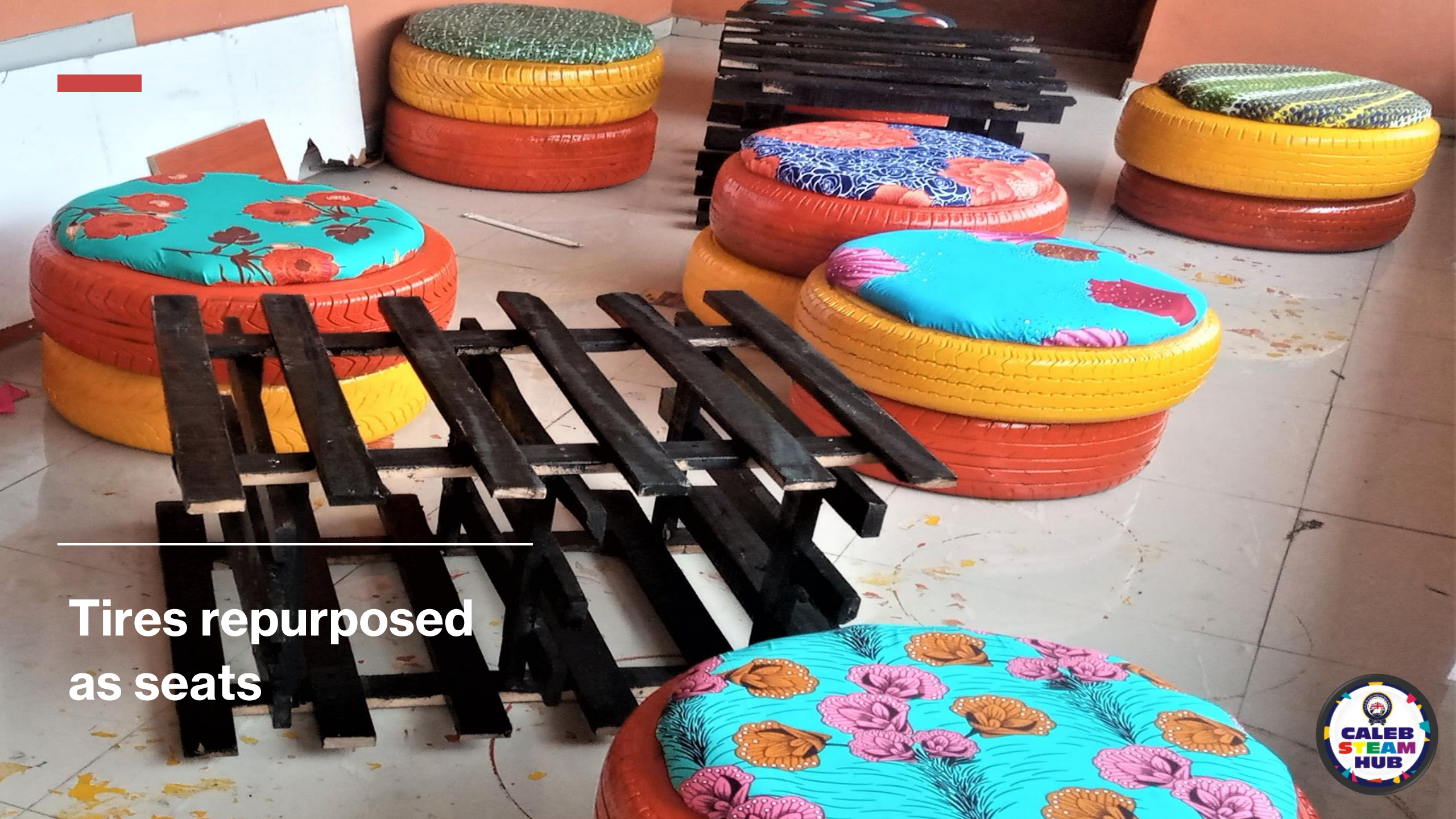
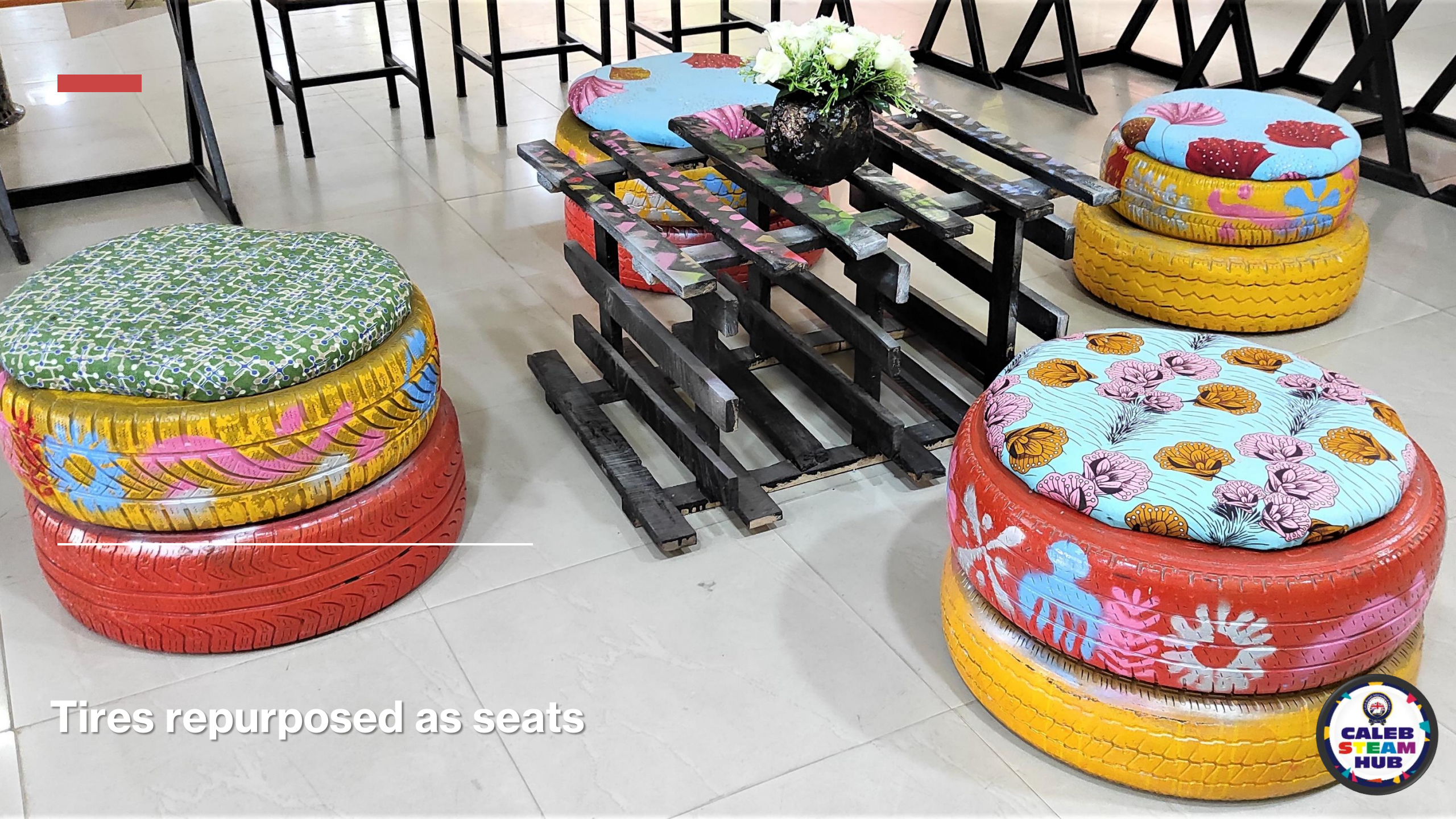
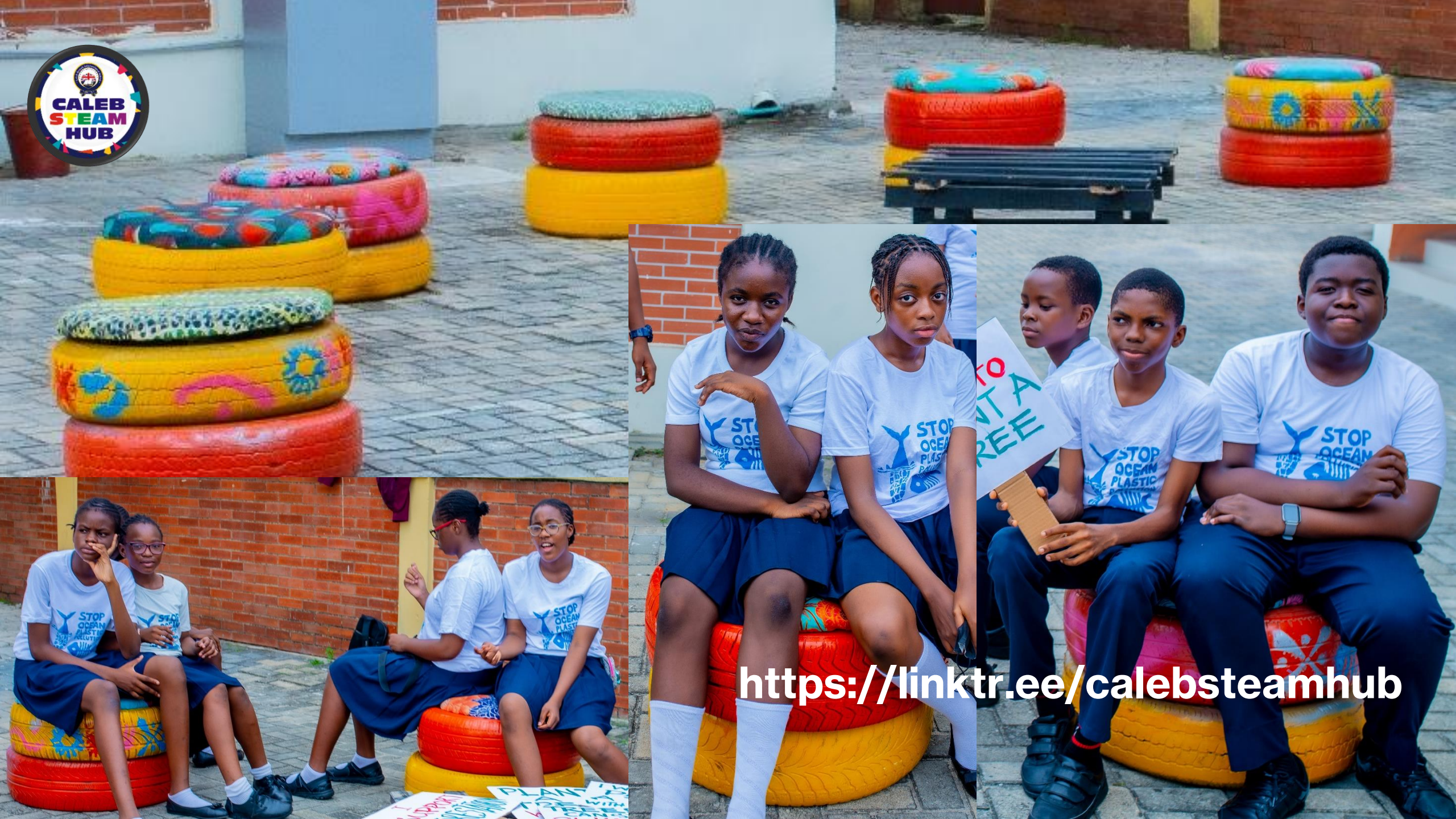
Tires repurposed as flowers vases



Tires repurposed as seats



Tires repurposed as seats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