

Example 2 Building a Sustainable Driveway

Criterion A:

Planning

For as long as I can remember, my dad always had trouble with the asphalt of our driveway. He didn't want to invest money in replacing the old, cracked and grainy bitumen over the years. Fortunately, my father needed to change the drain system of our house this summer and he was forced to plan the removal of it. That suited me because I think that it is not a good way in our ever-growing cities to fight global warming. I think that the impact that all the driveways of my neighborhood, added to all the roads, highways and unused parking spaces in my city have on the environment is really big. I decided that my learning goal for my project was to find out what might be a more sustainable option for my home. To achieve my goal, I intended to build a green driveway.

My success criteria were:

- 1- To cost less than an asphalt driveway, which is about \$4600 on average
<https://www.homeadvisor.com/cost/outdoor-living/install-asphalt-paving/>
- 2- To cover all of our driveway to make sure that all of our family needs are answered (2 cars)
- 3- To be a sustainable driveway
- 4- To have a good aesthetic
- 5- To have a low working and cost maintenance
- 6- To use local materials before online materials
- 7- To be able to build it myself

The plan for creating my product was simple, but I needed to follow it carefully to be able to be successful. First, I planned to do some research on the different ways to build a green driveway at a low cost. My research involved using mainly the Internet but also trying to interview a citizen of my city, Mr Forrest, who made the newspaper by proposing to the mayor a green parking lot near the local park. Using a calendar, I fixed all of my research time between 7 and 9 PM, from Monday to Thursday, for all September. I also scheduled an interview with Mr. Forrest on the first weekend of October. I thought that I could do all of my research within a month because there are a limited number of sources about green driveway.

After my first steps, I planned to do more research to make sure that the option I chose would be of low maintenance. I built a comparative grid to compare the different solutions and options costs. I planned on choosing my materials by browsing the Internet about the types of materials that already exist and the cost for them.

Then, I planned to go to local stores to find them before ordering online. On my calendar, I booked all of October because I knew that material selection was of great importance to achieve some of my success criteria. Then, I planned that I was going to build my green driveway. I made sure to have all the tools needed to be able to do it by myself by using my research results. I also thought about booking two weekends in November to realize my project. Since the weather is important when you work outside, I planned some week evenings too for small work because I didn't want to use machinery to disturb my neighbors.