

# TOSHIBA/NSTA EXPLORAVISION SAMPLE WEB PAGE FORM

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# TOSHIBA/NSTA EXPLORAVISION SAMPLE WEB PAGE FORM

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The sample web page is titled "degrade A PAD" in a stylized font. On the left is a vertical navigation menu with five teal buttons: "HOME", "PAST & PRESENT TECHNOLOGY", "OUR TECHNOLOGY", "VIDEO", and "IMPACT". The main content area features a horizontal timeline with a green line and circular callouts. The callouts describe the history of menstrual products: Ancient Egyptians used papyrus, Ancient Greeks used wool, Medieval times involved bleeding into clothes or rags, and the first commercial pad appeared in 1921. A final callout notes that modern products are less sustainable due to plastic. A teal banner on the right states: "As companies created more hygienic and comfortable products, they became less sustainable."

**degrade A PAD**

**HOME**

**PAST & PRESENT TECHNOLOGY**

**OUR TECHNOLOGY**

**VIDEO**

**IMPACT**

The Ancient Egyptians used papyrus as tampons, and the Ancient Greeks utilized wood wrapped in wool (Simple Health, 2019).

Some of the first sanitary products before the modern pad and tampon were the sanitary belt and the menstrual apron, both of which were uncomfortable to use (Simple Health, 2019).

The most widely used menstrual products are the pad and tampon. Most varieties of pads and tampons contain plastic and end up in landfills ("Environmental Reasons," n.d.).

In Medieval times, People would bleed either into their clothes or a rag tucked into their undergarments, promoting bacteria growth and infection (Kotler, 2018).

The first successful commercial menstrual pad came out in 1921 (Borunda, 2019).

As companies created more hygienic and comfortable products, they became less sustainable.

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## OUR TECHNOLOGY

- HOME
- PAST & PRESENT TECHNOLOGY
- OUR TECHNOLOGY
- VIDEO
- IMPACT

### WHAT IS DEGRADE-A-PAD?

Degrade-a-Pad is a menstruation product system containing a chemical free menstrual pad and a compartment located in the toilet tank in which the pad can be disposed of.

### HOW DOES DEGRADE-A-PAD WORK?

Used pads will be placed into the compartment, and the lever will be flushed. This will activate a trickle of water along with the mixture of enzymes which will break down the pad. The particles will then make its way to the toilet bowl, where it can be flushed into the sewer system safely.

The compartment from which the enzymatic solution trickles. More enzymes are inserted to replenish the supply each month.

Safe and chemical-free pad made with PLA, cellulose, and wood cellulose.

One lever activates the trickle of water and the combination of the enzymes in the compartment, and one lever flushes contents into the sewer system, per usual.

Grate where the glucose and lactic acid particles slide through to land in the toilet bowl.

The degrading chamber where a combination of cellulase and serine protease enzymes along with water work to dissolve the pad.


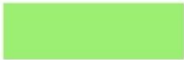

### THE COMPARTMENT

The compartment in the toilet tank contains a mixture of serine protease enzymes from the actinobacteria strain *Amycolatopsis* and cellulase secreted from the bacteria *Trichoderma reesei*.

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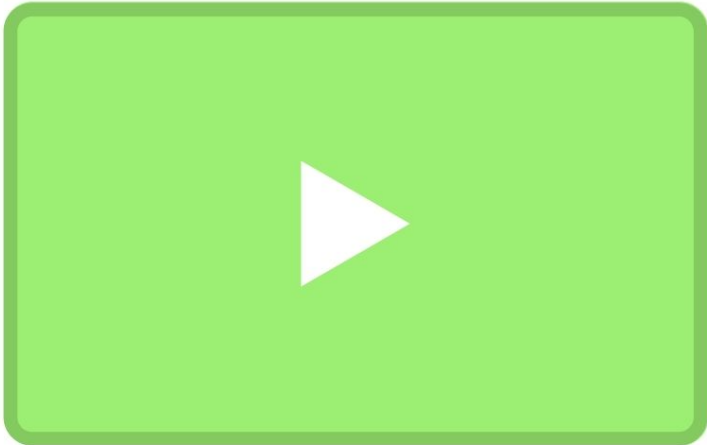
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**DEMONSTRATION**

click on the video below to  
track the journey of a pad as it  
is degraded with our technology



HOME

PAST & PRESENT  
TECHNOLOGY

OUR  
TECHNOLOGY

VIDEO

IMPACT

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The sample web page is titled "degrade a PAD" in a stylized font. The sidebar on the left contains five navigation buttons: "HOME", "PAST & PRESENT TECHNOLOGY", "OUR TECHNOLOGY", "VIDEO", and "IMPACT". The main content area is divided into three columns. The first column, under the heading "CHEMICAL-FREE", describes the materials used in the pad: cotton, absorbent wood cellulose, and polylactic acid (PLA). The second column, under the heading "IMPACT", discusses the benefits of the technology, including the elimination of plastic waste and the reduction of global warming. The third column, under the heading "PROGRESS TAKES TIME", explains that although the initial efforts and cost of implementing the technology will be difficult, the time and money saved from declogging sewer systems and the effects of reducing plastic pollution will be worth it in the long run.

**degrade a PAD**

**HOME**

**PAST & PRESENT TECHNOLOGY**

**OUR TECHNOLOGY**

**VIDEO**

**IMPACT**

**CHEMICAL-FREE**

Our pad is made of three simple and safe materials: cotton, absorbent wood cellulose, and polylactic acid (PLA)

**GROUND-BREAKING INNOVATION**

Such degradation of PLA in a time frame of hours has never been accomplished before. Similar technique can be applied to other disposable plastic products such as diapers, to further reducing plastic waste.

**IMPACT**

**NO MORE PLASTIC WASTE**

The Degrade-a-Pad offers a new way to dispose of used menstrual pads, degrading them into microscopic particles safe for sewer systems. Not only will pads no longer clog plumbing systems, but the plastic waste of pads in landfills is eliminated. Reducing plastic waste on our earth will slow global warming and save our planet.

**PROGRESS TAKES TIME**

Although the initial efforts and cost of implementing and distributing the Degrade-a-Pad technology will be difficult, the time and money saved from declogging sewer systems and the effects of reducing plastic pollution will be worth it in the long run.

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