

# CORRIGE

- **Ces éléments de correction n'ont qu'une valeur indicative. Ils ne peuvent en aucun cas engager la responsabilité des autorités académiques, chaque jury est souverain.**

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**I. COMPTE RENDU EN FRANÇAIS**

Cette fois-ci, ce n'est plus du cinéma : deux chercheurs de Hong Kong ont mis au point une matière textile qui se nettoie toute seule. Le principe consiste à enduire un tissu de coton d'une "nanostructure" à base de micro-particules de dioxyde de titane qui, en réagissant à la lumière solaire, décomposent la saleté et les autres matières organiques. Il ne reste plus qu'à exposer les vêtements à la lumière naturelle ou à des rayons UV pour qu'ils commencent à se nettoyer.

Bien que la technologie soit compliquée et le processus de dégradation de la saleté assez lent, les concepteurs de ce tissu intelligent sont persuadés que leur invention pourrait très bientôt faire partie de notre vie quotidienne.

D'ailleurs, plusieurs compagnies sont prêtes à commercialiser ce procédé, qui pourrait intéresser les gens qui n'ont pas le temps ou l'équipement nécessaire pour laver leurs vêtements, comme par exemple l'armée, les voyageurs ou les randonneurs. On pourrait aussi l'utiliser pour le linge de maison et les tissus d'ameublement. **(166 mots)**

**II. EXPRESSION EN ANGLAIS**

1) I don't think we'll be able to get rid of our washing machines so soon. Dr. Xin himself says the technology of the self-cleaning textile is quite complicated, which means it will probably be rather expensive at the beginning. He adds that it takes a few days in the sunshine for the dirt to disappear, which means that you need to be patient, to have plenty of clothes, and enough sunshine, or does it work when the sky is grey? And what about the dirt inside? And the smell? I think the technology needs improving before we can use it every day. And I'm not sure the manufacturers of washing machines, washing powder, ... will be very pleased. **(118 mots)**

2) Document 2 is an ad for Nilit's Sensil yarns. The right half of the ad is taken up by the photo of a smiling young woman who seems to be dancing in the sun with a huge bunch of white flowers in her arms. This symbolises the freedom and relaxation mentioned in the catchphrase we can read at the top of the left half. The association of Sensil fibers with freedom is expressed by the slogan "free yourself" inside the Sensil logo. This freedom is on the one hand the freedom offered to designers to create the garments they want and on the other hand the freedom those garments offer their wearer, thanks to their comfort and versatility. **(118 mots)**

3) We already have self-moisturising tights, swimsuits that let UV rays through or strawberry-scented underwear. Maybe soon we will be able to change the channel on the TV just by touching the armrest of the sofa, or wear a jacket that plays music and changes colour to suit our mood. In the near future, sportsmen will wear tracksuits that monitor their heartbeat and send the data to their sports club thanks to an inbuilt mobile phone. We may soon be able to use fabrics that alter their structure in response to rain, sweat, heat and cold or textiles which incorporate solar cells that provide enough energy to power a laptop. It's only a matter of time. **(115 mots)**.