

## Épreuve de DNL Anglais - Physique-Chimie

## Sujet n° 3 – Série S

Durée de l'épreuve : 40 minutes

- 20 minutes de préparation
- 10 minutes de présentation et 10 minutes d'échange avec le jury

**Energy Savings:****Efficient energy in architecture in building the University of Amsterdam**

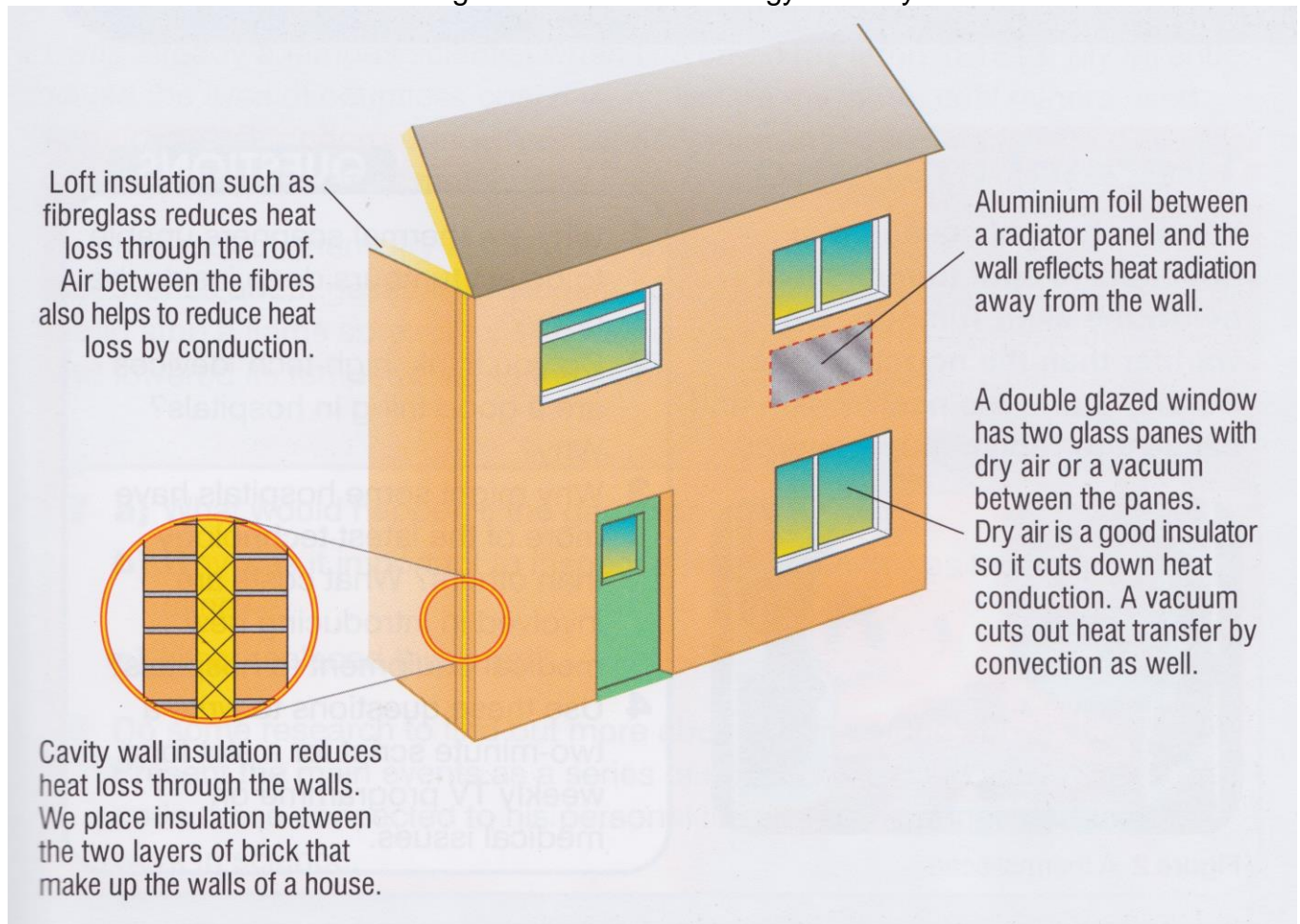
Watch the video attached to the link below and answer the questions. (duration: 2'15)

**Sujet3.mp4**

(Extracted from the IOP (Institute of Physics) website: <https://www.youtube.com/watch?v=50VB2p0osbE> )

**Reducing heat loss at home**

The attic is the area which is the greatest source of energy loss in your home.

**Tasks:**

1. Present and comment on these documents.
2. Conduction, Convection and Radiation are Energy transfers. Explain and give some examples.
3. Which types of insulation prevent Energy heat loss in houses? Discuss the Energy transfers involved referring to which types of insulation.
4. Explain why architects have to pay attention to Energy savings and sustainable development when conceiving a building.

**Glossary:** draught = courant d'air ; attic = grenier.