

FINDING A PROBLEM TO SOLVE THROUGH DESIGN

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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PROBLEM CARD

Waiting for the bus, to go to school / college.

What design opportunities do you see in this photograph?



PROBLEM

Standing up for twenty minutes, until the bus arrives. No seating available.

BRIEF

Design a lightweight, folding seat that can be carried easily, possibly fitting into a bag.

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PROBLEM CARD

Reading a book at school or when travelling.

What design opportunities do you see in this photograph?



PROBLEM

Book marks often fall out of my book. I lose the page I have marked and waste time finding it again.

BRIEF

Design a bookmark that is impossible to dislodge. It could have other uses such as

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PROBLEM CARD

Taking out the correct pen and pencil from a pencil case.

What design opportunities do you see in this photograph?



PROBLEM

Finding the right pen / pencil and taking it from a pencil case straightaway, is difficult.

BRIEF

Design a pen / pencil / stationary holder that 'presents' my pen straight to me, when I need it.

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PROBLEM CARD

Possibility of damage to expensive spectacles.

What design opportunities do you see in this photograph?



PROBLEM

Some of my friends have knocked their spectacles off a table, breaking them.

BRIEF

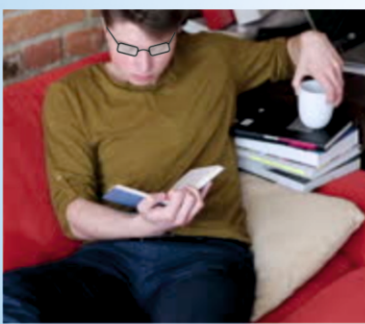
Design a 'snap on' accessory for table tops, so that spectacles are held safely and cannot be knocked to the floor.

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PROBLEM CARD

Holding a drink, whilst sat on the settee watching TV or reading.

What design opportunities do you see in this photograph?



PROBLEM

When my brother watches TV, he holds a drink in his hand. On at least one occasion, he has split it.

BRIEF

Design a self balancing cup / glass holder, that prevents spilling.

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PROBLEM CARD

My friend completes her homework (writing and sketching) sat on the settee, not at a table.

What design opportunities do you see in this photograph?



PROBLEM

She finds it difficult to write and sketch, even with a board underneath her work.

BRIEF

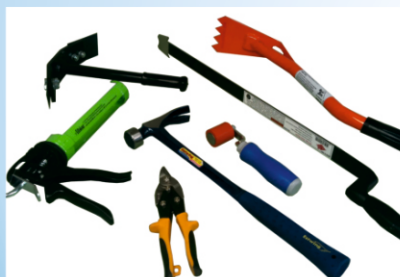
Design a lightweight 'system', that holds paper level and securely, allowing the user to sit comfortably.

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PROBLEM CARD

I was watching a construction worker / builder working on a building site, using a range of tools.

What design opportunities do you see in this photograph?



PROBLEM

He had a small selection of tools laid out on the ground. This was a trip hazard.

BRIEF

Design a tools/equipment organiser, that is easy to carry and allows easy selection and access.

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PROBLEM CARD

Recently, a neighbour has been using a ladder, when painting the eaves of his house.

What design opportunities do you see in this photograph?



PROBLEM

The neighbour held the paint tin in one hand, and was painting with his other hand. This looked dangerous.

BRIEF

Design a paint tin holder for ladders, that allows the user to hold on to the ladder with one hand, whilst using a brush with the other.

FOR GUIDANCE ON THE DESIGN PROCESS GO TO:
<http://www.technologystudent.com/designpro/despro1.htm>