



## Teaching Resource Sheet Home 1

### KITCHEN DESIGN

**FOR AGES** 6 - 13 years

#### **RESOURCES NEEDED**



Computer, SPEX with the Home Environment, paper, printer, other things - kitchen and tile catalogues, paint sample cards, wall paper, carpet and fabric samples. Samples of different materials for work surfaces (see Worksheet 1b).

#### **PREPARATION**

Tell the class they are now employed by Kool Kitchens & Co, kitchen designers. They have a brief to design a new kitchen for Mrs Karen Ketchup who has two children. Worksheet 1a gives details of the specification.



Get the class to discuss and make a list of the different ways in which kitchens are used, for food preparation, for eating, for washing, doing homework or just sitting. Do different families use their kitchen for different things?

Explain that interior designers often use CAD in their work to help them imagine how things would look inside a room if alterations were made, so that they don't have to actually change the room. For instance, how would the room look with yellow walls and a blue carpet? The computer can also work out the costs.

#### **WHAT TO DO**

On the computer the pupils enter the dimensions of the room and the budget of £3,000 in the Spex startup window. In the wall view window they select and place windows and doors. In the plan view window pupils select furniture and other items to go in the kitchen, using the budget window to see how much money they are spending, and next choose a colour scheme.



Pupils print out a 2D plan view and a 3D view of the kitchen.

They also print out the spreadsheet to see how much the kitchen has cost.

#### **EXTENSION WORK**

Safety in the kitchen - discuss danger in the kitchen, what the hazards are and how accidents can be prevented. Pupils could use a Spex 3D kitchen printout to draw in the various hazards (eg sharp knives, trailing electric cables) that they have thought of and make it into a poster.

Also see Worksheet 1c



Design a kitchen wall tile.

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## Worksheet 1a

# KOOL KITCHENS & Co

## Kitchen for Karen Ketchup

### **SPECIFICATION**

Mrs Ketchup lives with her two children aged 3 & 9 years.

The size of the kitchen is to be: WIDTH 5.5 metres

LENGTH 6.5 metres

### **Fittings**

There needs to be:

1. A window on the West wall.
2. A window on the North wall.
3. A sink placed under the window on the west wall.
4. A door in the east wall.









### **Colour Scheme**

The colours should be yellow for the walls with a green floor.

### **Cost**

The total cost must not be more than £3,500, which includes appliances and fittings.

### **WHAT TO DO**

- |   |  |   |                               |
|---|--|---|-------------------------------|
|   | 1. Design the kitchen using Spex. Include items needed in the kitchen such as units, a cooker etc. |   | <i>Tick when task is done</i> |
|  | Use the budget window to keep track of how much you have spent.                                    |  | <input type="checkbox"/>      |
|   | Use the colours window to alter the colour scheme.   |  | <input type="checkbox"/>      |
|  | 2. Save the design.  |   | <input type="checkbox"/>      |
|   | 3. Print a 3D view of the kitchen.   |  | <input type="checkbox"/>      |
|  | 4. Print a plan view of the kitchen.   |  | <input type="checkbox"/>      |
|   | 5. Print the spreadsheet to show the cost of the kitchen.  |  | <input type="checkbox"/>      |



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## Worksheet 1b

# KOOL KITCHENS & Co

## Kitchen for Karen Ketchup

On the printouts of the plan view and the 3D view of the kitchen,

1. Mark which wall is North, South, East and West.
2. Label the items in the room.

### **Materials**

3. Suggest 3 kinds of material you could use to cover the floor:

- a ..... b .....
- c .....

Which would you choose? .....

4. Kitchen work surfaces have to stand up to a lot of wear and tear - scratches from sharp knives, spills, hot pans, crumbs and mess. They also need to be easy to keep clean because they are used for preparing food.

Put a ring around the qualities of a good work surface:

*easy to scratch*

*doesn't burn or melt*

*soft*

*wears out quickly*

*absorbent*

*stain resistant*

*hard*

*burns or melts easily*

*scratch resistant*

*waterproof*

*hard to clean*

*hard wearing*

*easy to clean*

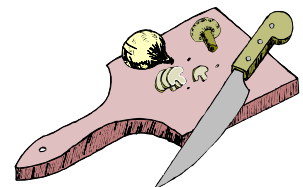
*stains easily*

5. Underline the materials which would be good for making a chopping board:

*cardboard*  
*carpet*  
*paper*  
*concrete*

*marble*  
*wood*  
*glass*  
*plastic*

*gold*  
*ceramic tiles*  
*stainless steel*  
*vinyl*

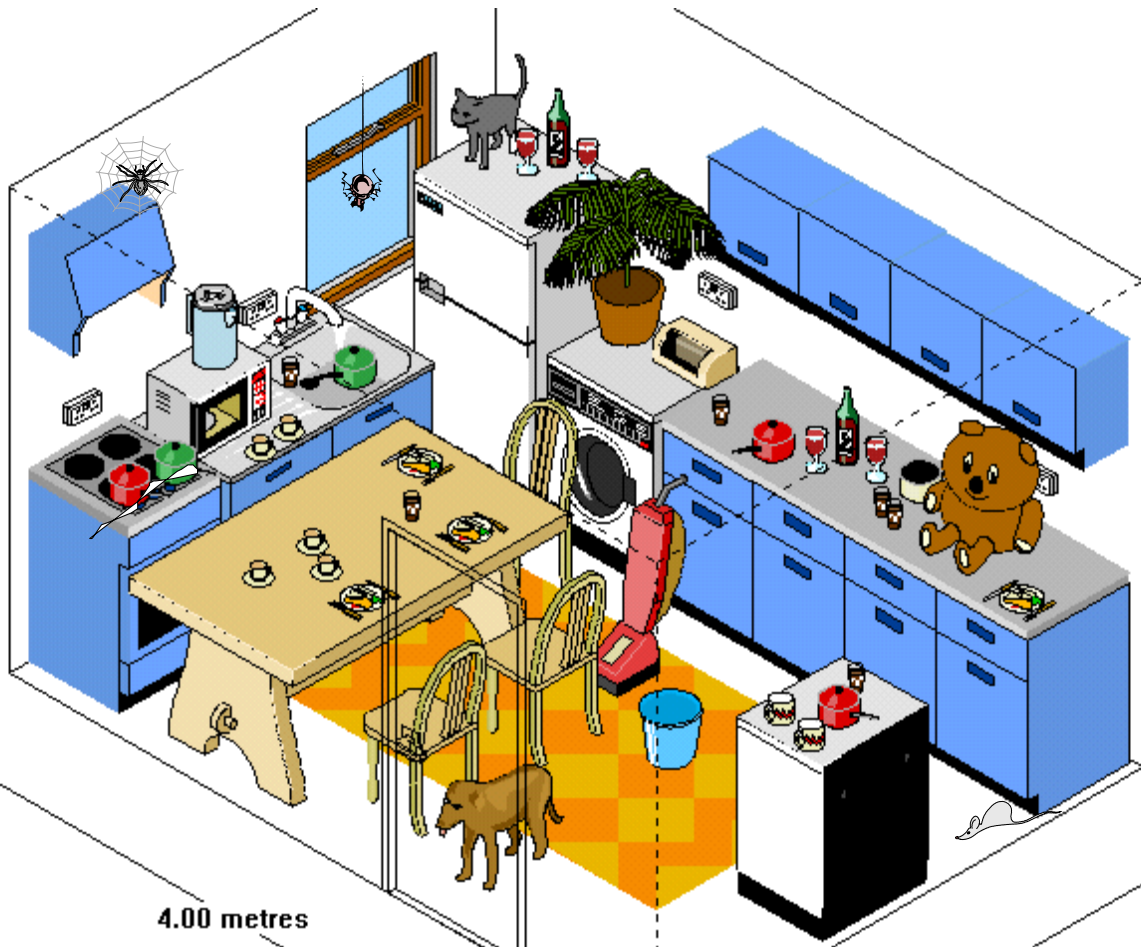


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NAME.....  
Worksheet 1c

## A well- designed kitchen?



1. Is this kitchen a safe, hygienic and easy place to work in? Has the kitchen designer used the space well? Make a list of any dangers or problems you can see.
  2. Using Spex, and the fittings and furniture already in the kitchen, make a safer kitchen which is comfortable to work in. You may enlarge the kitchen to Length 6 metres, Width 5 metres.
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