

Design and Technology: Y5/6 project

These sheets are intended to support Year 5/6 Design and Technology work by helping ensure that all the aspects of the curriculum are addressed and covered.

Index of sheets:

Evaluating existing products

- Evaluating : investigating an existing product, a double-sided sheet (ideally children would each complete two of these for different products)

Establishing the design criteria

- Designing: my survey/questionnaire/interview results – outlining the results of the research from potential users in respect of the types of design they would find appealing.
- Designing: overview – outlining what is being designed, the user, the purpose, etc.
- Designing: design criteria for my product

Generating ideas for a design

- Designing: ideas for my product (this is for the children's first ideas and the sheet could be reproduced back-to-back hoping for at least three different ideas)
- Designing: improving and developing the best ideas for my product (this is where children show they can develop their first ideas, maybe combining the best features from the different ideas they started with, also adding detail)
- Designing: presenting my selected design idea (this is for children to detail the product they intend to make – it is not their “final design” as they need to be encouraged to modify their design throughout the making process as they find and overcome problems and, perhaps, have other and better ideas to modify their design – this is the iterative process; there is a version of this sheet with an isometric grid)

Planning the making stage

- Making: selecting the tools, equipment, materials and components 1 & 2 (these are for the children to record their choices and to explain those choices)
- Making: planning the work (There are alternative styles of sheet for this activity. The second alternative may be used for the children to separately plan the work to construct different specific elements of their product)

Making

- Making: further improving my design while I am making it (for the children to fill in as they identify and overcome problems and make further improvements during the making stage)

Evaluating

- A presentation drawing of my finished product
- Evaluating: my own thoughts about my product (there are two alternative versions of this sheet)
- Evaluating: user's evaluation sheet (a sheet to collect feedback from the person/people you made the product for)

Evaluating: investigating products

Draw and label one of the products you have examined and show:

- materials used;
- components used;
- methods of fixing used;
- movement/types of motion;
- methods of finishing used (eg painted, polished etc);
- who the product has been designed and made for.



Name: _____

Designing: my survey/questionnaire/interview results

The answers and comments of the users I interviewed/surveyed tell me these things:

List the information you discovered from the users you are designing for: note their needs, their wants and preferences

Designing: overview

What I am designing and making (the product): _____

Who I am making it for (the users): _____

What it is for and what it should do (its purpose/purposes): _____

How it will work: _____

How it is suitable for the person/people I am making it for: _____

Designing: design criteria for my product

I am designing and making my product for _____

I want my product to (list the most important feature first):

1. _____

2. _____

3. _____

4. _____

5. _____

Further notes:

Name: _____

Designing: ideas for my product

Ideas for my product:

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Name: _____

Designing: improving and developing the best ideas for my product

(If you model your ideas in paper, stick your paper models onto these sheets too).

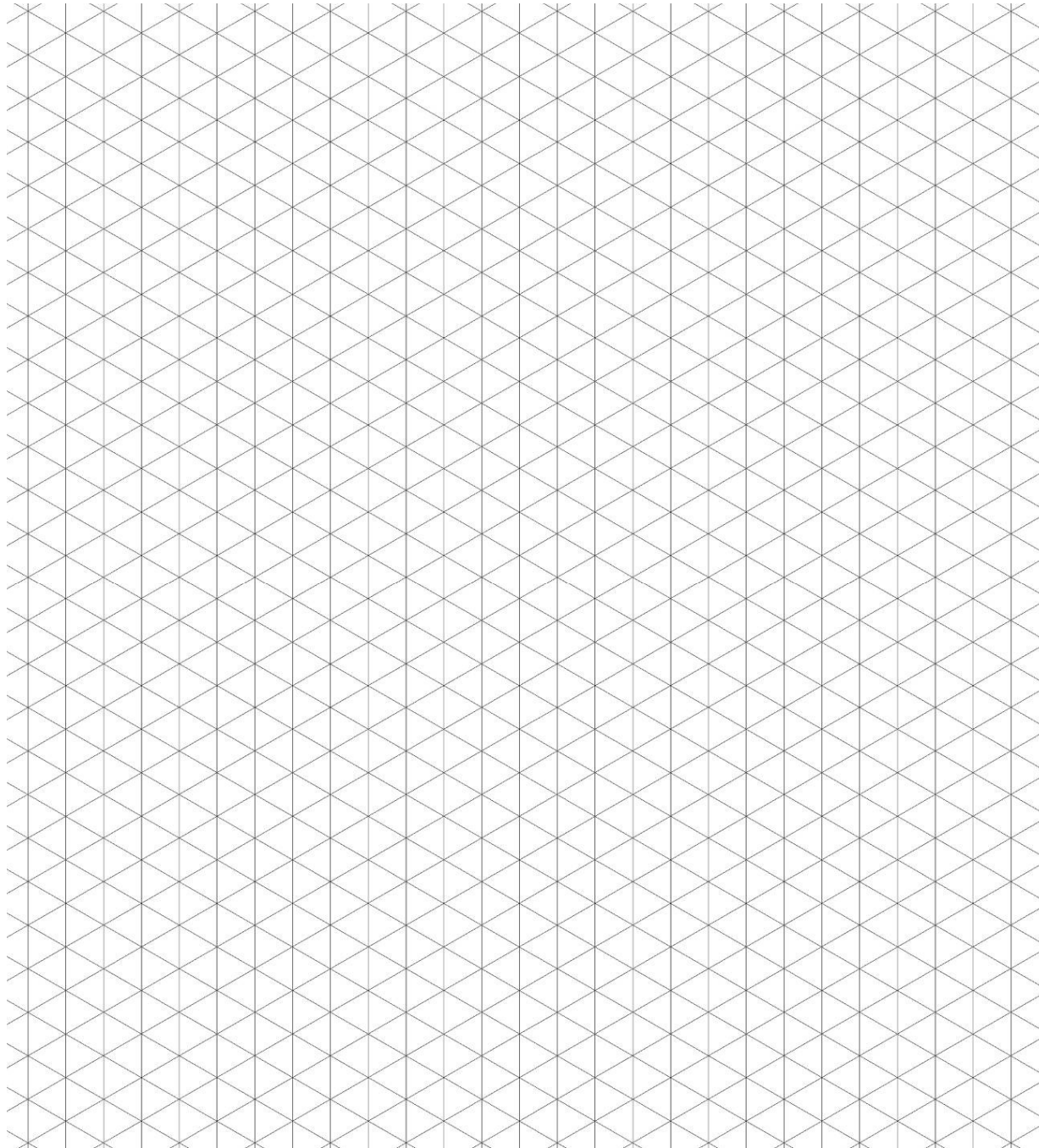
Name: _____

Designing: presenting my selected design idea

Draw and label the final design you have chosen.

Name: _____

Designing: presenting my selected design idea (isometric paper)



Name: _____

Making: selecting the tools, equipment, materials and components (1)

List the tools and equipment you considered using on the lines below.
Put a ring around those you choose to use to make your product.

List the components and materials you considered using for your product and to decorate it on the lines below.
Put a ring around those you choose to use to make your product.

Making: planning the work

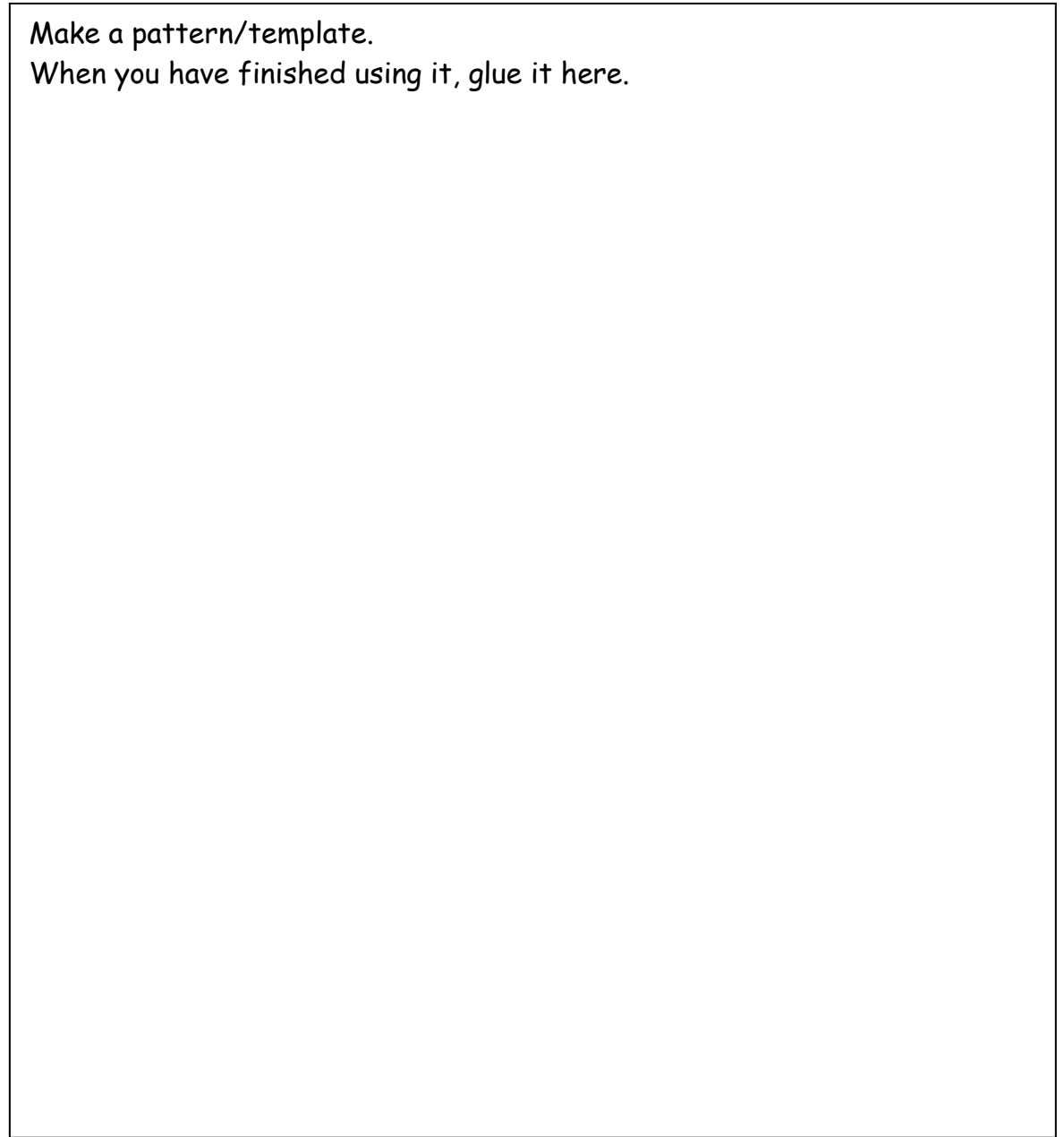
Action plan:

List the sequence of activities you will need to go through to make your product:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Make a pattern/template.

When you have finished using it, glue it here.



Making: planning the work

My sequence of work: the order in which I will mark, cut, shape, join, decorate and finish elements of my product.

The tools and materials I will need:

Things I need to think about while I am making my product:

Name: _____

Making: planning the work

When you have finished using any patterns/templates, glue them here.

Making: improving my design further while I am making it

As you are making your product,
list the problems you come across here:

Describe the solutions to these problems :

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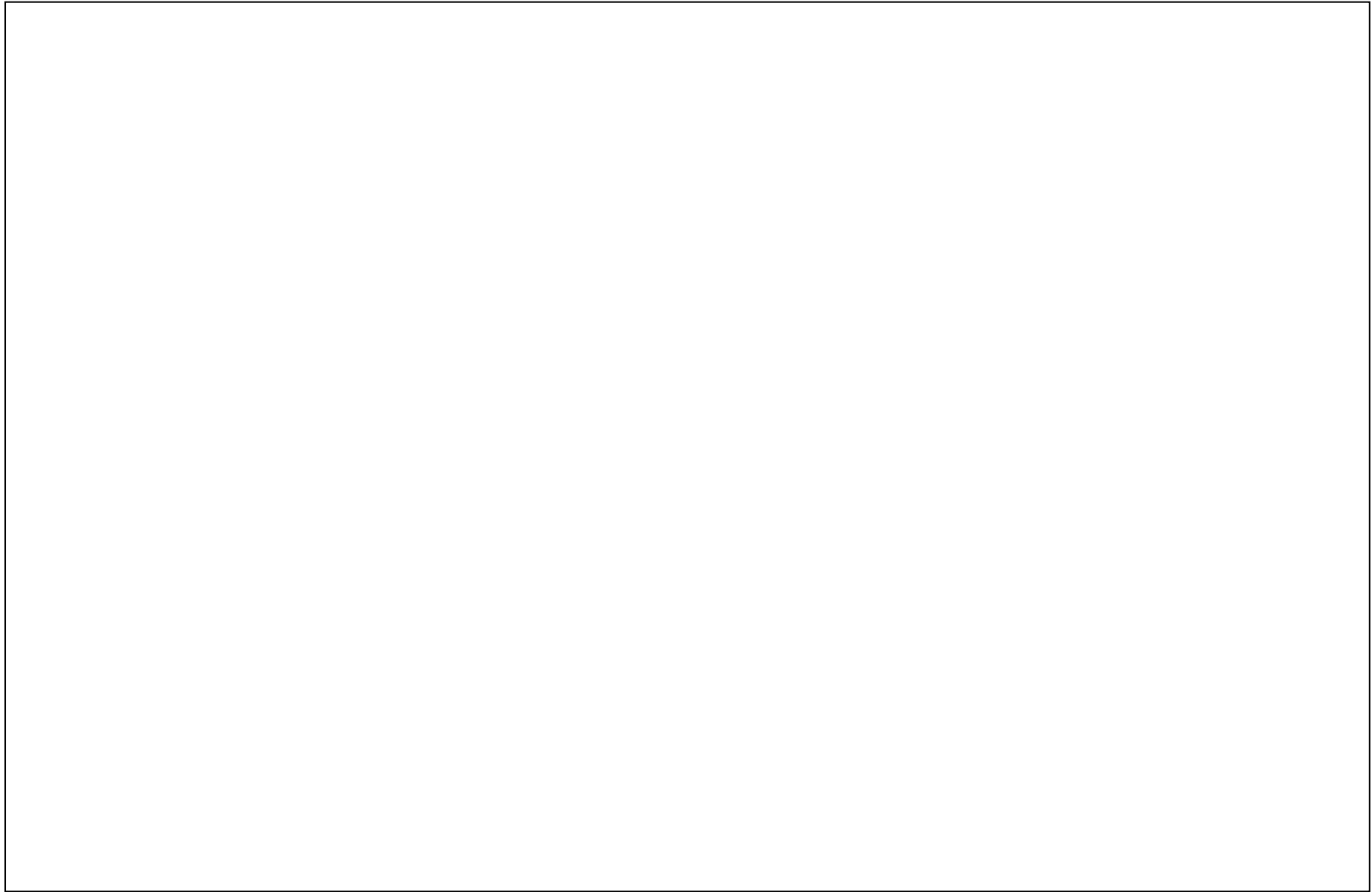
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Name: _____

A presentation drawing of my finished product



Evaluating: my own thoughts about my product

After you have finished and tested your product, say how well you think it meets your design criteria.

Design criteria	Tick			Comments
	Fully meets	Partially meets	Does not meet at all	
1				
2				
3				
4				
5				

What are the best parts of your design?

What parts of your design would you change and why?

Evaluating: my own thoughts about the product

Does your product have all the features you identified earlier? If not, why not?

What do you like about your product?
What could you improve about your product?

How could you plan your work better in future projects?

What have you learnt from doing this activity?
Where else can you use these new skills?

Evaluating: user's evaluation sheet

Does the product have all features you wanted? If not, what is missing or lacking?

Thinking about how well the product "works":
What do you like about the product?
What would you like to be improved?

Thinking about how well the product is made:
What do you like about the product?
What would you like to be improved?

Thinking about how good the product looks and feels:
What do you like about the product?
What would you like to be improved?