

Year 4 Design and Technology: Money Containers project

These sheets are intended to support the Year 4 *Money Containers* project by helping ensure that all the aspects of a Design and Technology project are addressed and covered.

Index of sheets:

Evaluating existing products

- Evaluating: investigating money containers (comparing existing products – two alternative versions of this sheet – single sheet version and a two sheet version)

Establishing the design criteria

- Designing: money container – outlining what, the user, the purpose, etc.
- Designing: design criteria for my money container (there are two alternative styles of this sheet)

Generating ideas for a design

- Designing: ideas for my money container (this is for the children's first ideas and could be reproduced back-to-back hoping for at least three different ideas)
- Designing: improving and developing the best ideas for my money container (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)

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 two alternative styles of sheet for this activity)

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

- Money container – a presentation drawing of my finished product
- Evaluating your money container: your own thoughts (there are two alternative versions of this sheet)
- User's evaluation sheet (a sheet to collect feedback from the person you made the money container for)

Evaluating: investigating money containers

Look at a range of money containers, choose two to compare.
Draw them and then answer the questions about each one.

1

2

Who is it most suitable for? Why?		
How does it keep money safe?		
What compartments are there? Are they useful?		
Is the fastening effective? (Does it work well?)		
What design features do you like?		
How are the different parts joined together?		
What size is it? (record measurements)		

Evaluating: investigating money containers

Comparing money containers

Container 1

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Who is it most suitable for? Why?	
How does it keep money safe?	
What compartments are there? Are they useful?	
Is the fastening effective? (Does it work well?)	
What design features do you like?	
How are the different parts joined together?	
What size is it? (record measurements)	

Evaluating: investigating money containers

Comparing money containers

Container 2

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Who is it most suitable for? Why?	
How does it keep money safe?	
What compartments are there? Are they useful?	
Is the fastening effective? (Does it work well?)	
What design features do you like?	
How are the different parts joined together?	
What size is it? (record measurements)	

Designing: money containers

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 money container

I am designing and making a money container for _____

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

1. _____

2. _____

3. _____

4. _____

5. _____

Further notes:

Designing: design criteria for my money container

I am going to design and make a money container for

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

1. _____

2. _____

3. _____

4. _____

5. _____

Start to draw your ideas here:

Name: _____

Designing: ideas for my money container

Ideas for my money container:

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Name: _____

Designing: improving and developing the best ideas for my money container

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

Designing: presenting my selected design idea

Draw and label the final design you have chosen.

Useful words:

- Seam and seam allowance
- Strap
- Hem
- Fastening
- Gusset
- Reinforcement
- Compartments
- Press stud
- Velcro
- Decoration (fabric pens, applique, embroidery, dying etc)
- Type of fabric
 - Say why you have chosen this fabric
 - What are the properties of the fabric (eg hard wearing)



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 money container.

List the components (e.g. for the closure mechanism) and materials (e.g. fabrics) you considered using for your money container and to decorate it on the lines below.
Put a ring around those you choose to use.

Stick a sample of the fabric you have chosen in this box.

Making: selecting the tools, equipment, materials and components (2)

Explaining my choices

The main tools, equipment, materials and components I chose

Reasons for my choices:

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Making: planning the work

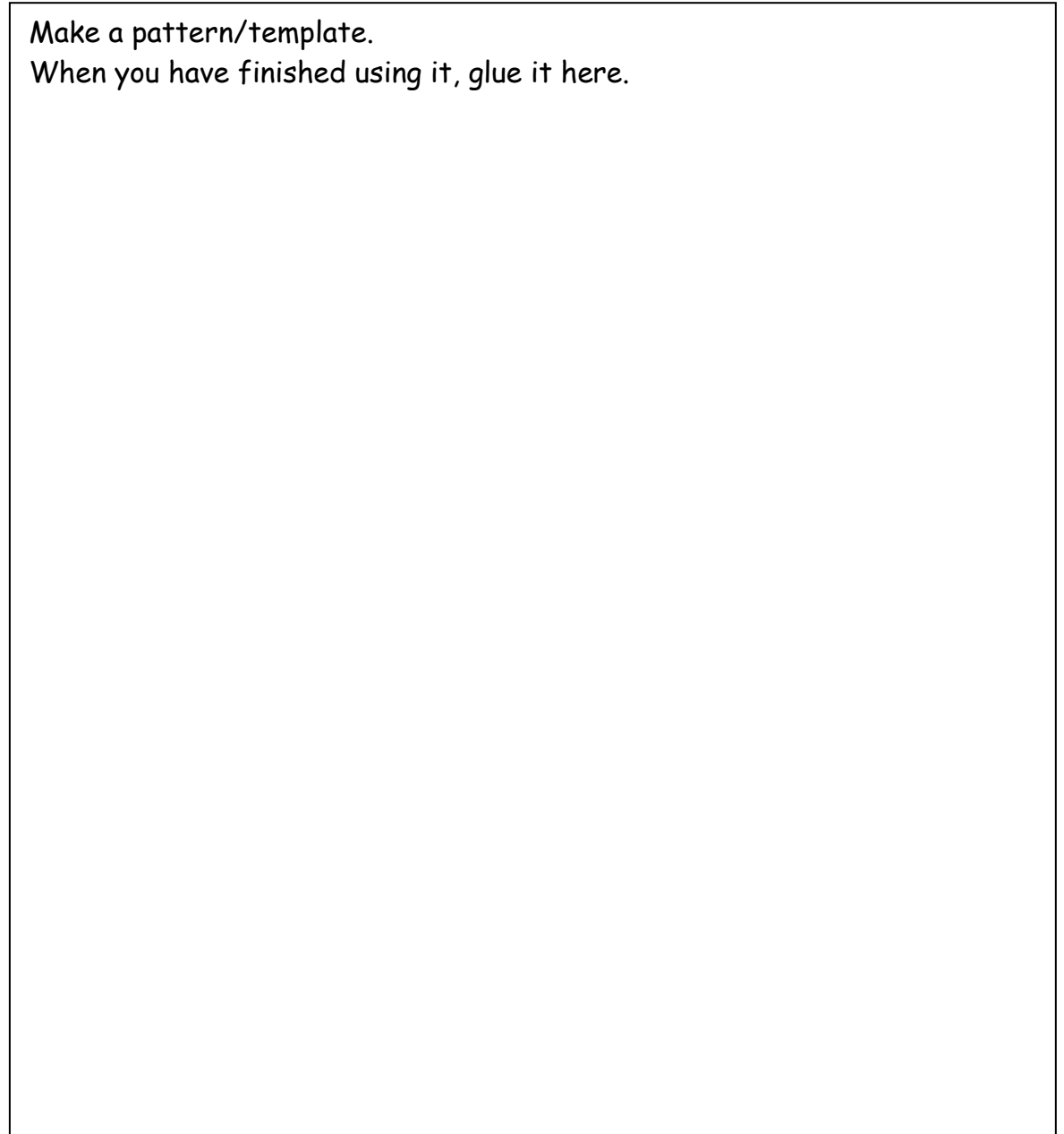
Action plan:

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

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

How will I start? What will I do next? How will I finish?

What tools and materials will I need? List them here.

What do I need to think about while I am making my money container?

Making: further improving my design while I am making it

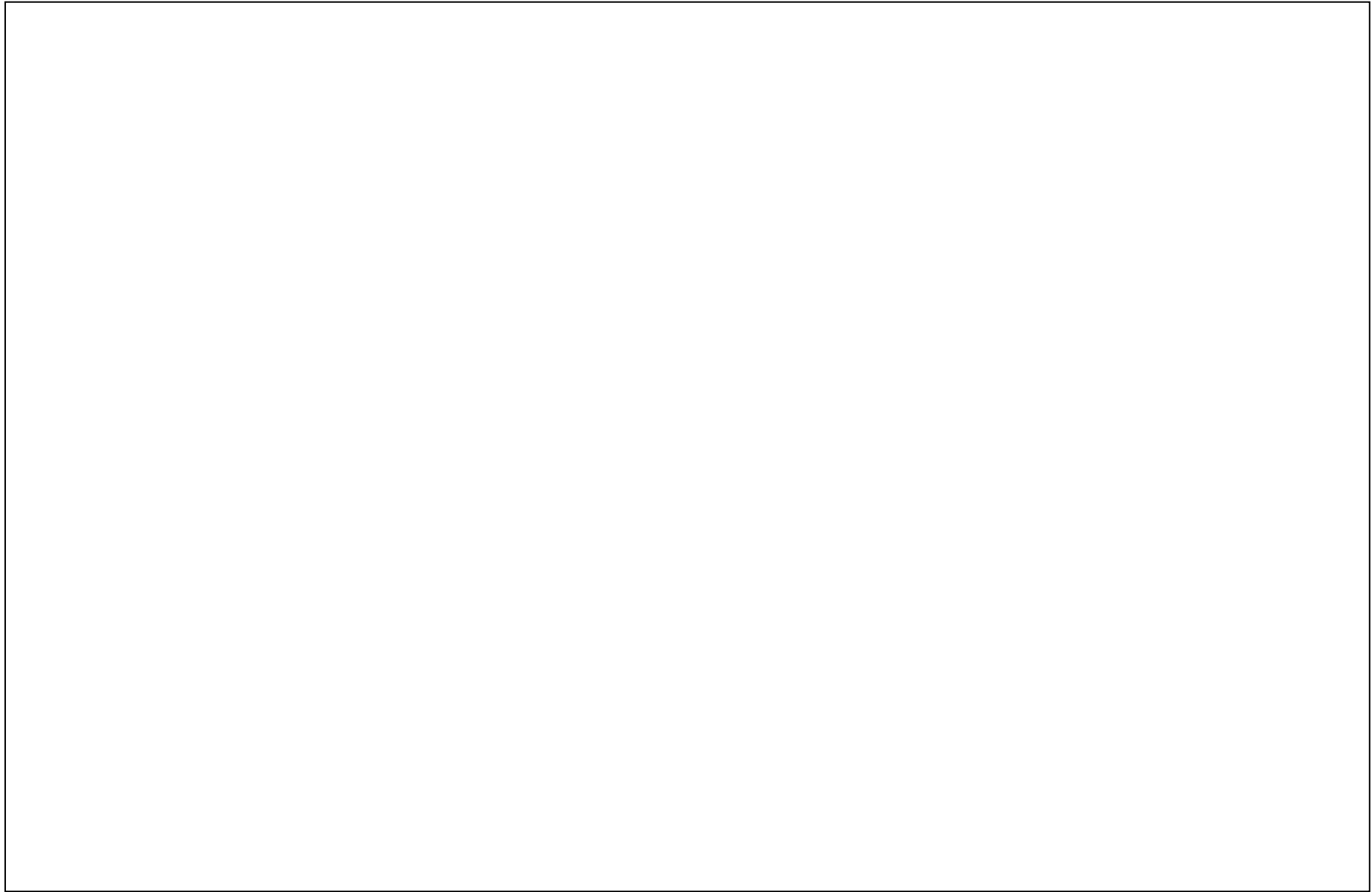
As you are making your product,
list the problems you come across here:

Describe the solutions to these problems :

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Name: _____

Money container – a presentation drawing of my finished product



Evaluating your money container: your own thoughts

After you have finished and tested your money container, 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 your money container: your own thoughts

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

What do you like about your money container?
What could you improve about your money container?

Could you have planned your work better?

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

User's evaluation sheet: evaluating a money container designed for you

Does the money container have all the features you wanted?
If not, what is missing?

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

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

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