

DOMESTIC ENGINEER

LEARNING OUTCOMES

Having gained this badge the members will be able to:

- perform some basic domestic tasks;
- demonstrate knowledge about the safe use and care of home appliances.

BADGE REQUIREMENTS

1. Demonstrate the safe use and care of the washing machine by doing at least one wash load a week for a month.
2. Demonstrate how to dry clothes of different sizes and fabrics.
3. Demonstrate that you can iron at least six items – including two items of your clothing, one with set in sleeves.
4. Demonstrate the safe use and care of: vacuum cleaner, electric kettle, fry pan, microwave, iron, toaster, refrigerator and stove.
 - 11 - 13s at least **four** appliances
 - 14+ at least **six** appliances
5. Help to keep clean and tidy the following rooms in your house for one month:
 - 11 - 13s your bedroom **and** either the lounge **or** dining room
 - 14+ your bedroom **and** lounge **and** dining room
6. Demonstrate how to clean the following rooms: bathroom, toilet, kitchen and laundry.
 - 11 - 13s at least two
 - 14+ all four

GUARDS
RANGERS



CATEGORY

Skills

TIME FRAME

Minimum
Four - five weeks

AIM

To provide members with knowledge, skills and experiences in some basic home duties.





TEACHING IDEAS

To assess this badge you may need to enlist the help of the members' parents to supervise the work done. You may consider taking members to the home of someone you know is a good homemaker where they can see a clean, healthy environment. Alternatively, invite guest instructors to teach this badge.

The following ideas can be used to teach the facts that need to be known before the work is completed. (An assessment sheet and check sheet for Requirement 5 are provided following the teaching ideas.)



1. Demonstrate the safe use and care of the washing machine by doing at least one wash load a week for one month.

This should include proper sorting of clothes, pre-wash stain treatment if necessary, correct setting for water level and temperature, taking care with the type of fabric being washed, the spin cycle speed and detergents used.

Game – Musical Clothes

Place in a large garbage bag some clean shirts, trousers, socks, jumpers, skirts, t-shirts, underwear, nightwear, caps, towels so that you will have one article for each of your members. Make sure that there are different colours and types of fabric and choose clothing that has the label still legible.

The group sits in a circle and passes the bag around while music plays (or until you blow a whistle). When this happens the person holding the bag removes an article and sits back from the group. (If your group would like to do so, have them put the article on over their clothing.) Once the bag is empty go around the circle having each member hold up their garment and explain what it is and how it should be washed. (Allow them time to read the label.) If the group approves the method described have them give 'a round of applause'. (This is clapping loudly as the hands move around in a large circle.)

Handouts 1 and 2 may be used to teach this badge requirement.



2. Demonstrate how to dry clothes of different sizes and fabrics.


The members should be aware of ways to dry clothes on a clothes line as well as using a clothes dryer.

Discuss with your group the reason why drying in the sunshine is the best way to dry most clothing. *(The clothes smell fresher. It is also more environmentally friendly than using up electricity.)*

At times when line drying is inconvenient, unavailable or it rains for days, we need to know how to use a clothes dryer. Use Handout 3 to discuss how different fabrics need different heat settings and take different times to dry.

Teaching ideas




-  3. Demonstrate that you can iron at least six items – including two items of your clothing, one with set in sleeves.

If possible have an ironing board and iron for each member of your group and the necessary articles for them to iron set up at your parade.

Invite a person who is competent in ironing to come along to talk to the group about the best way to iron clothes. Ask them to talk about the importance of the correct setting on the iron for various fabrics and the use of the steam setting. Reference to labels on clothing should be made.

Firstly, have the group iron straight articles such as a handkerchief, tea towel or tablecloth, then advance to a t-shirt, pants and a shirt. Have the tester explain why we should hang clothing straight onto a coat hanger or fold it neatly as we iron.

-  4. Demonstrate the safe use and care of: vacuum cleaner, electric Kettle, fry pan, dryer, microwave, iron, toaster, refrigerator and stove.


■ 11–13s at least four of these appliances

■ 14+ at least six of these appliances

A guest instructor can be invited to teach this requirement. Instruction books on how to use the appliance would also be good to show.

Check what appliances are in your corps kitchen and bring along a few others so that you have at least six different appliances. As you show each one have your members call out what it is used for, how to use it safely and why you should care for it. Add any pointers that may not have been raised.

Go through the safety points on **Handout 4** and give the group time to tick the ones they already do and highlight the ones they need to start doing.

-  5. Help to clean and tidy the following rooms in your house for one month:

■ 11–13s your bedroom and either the lounge or dining room

■ 14+ your bedroom and lounge and dining room

You need to decide how you will check that this is being done. A check sheet has been provided and this could be photocopied and given to all members.

Games for points 5 & 6

Bring along as many cleaning products as you can, e.g. furniture polish, glass cleaner, carpet cleaner, air-freshener, disinfectant, floor cleaner, shower cleaner, etc.



Teaching ideas

Have the members work in pairs or groups. Give each group one cleaning product and ask them to read the information about the product and prepare a short commercial that explains the product's use and value. As the group watches each other's commercial they can discuss whether they would buy the product.

Or

Have the group sit in a large circle with a basket containing cleaning products in the middle.

Spin a bottle in the middle of the circle and the person being pointed to by the bottle takes a product from the basket and explains its use and value. Continue to spin the bottle until all the members have had a turn or all the products have been described.

Or

Make cards with the names of various household items written in large print, for example, timber wall unit, bathroom basin, kitchen floor, shower recess, bathroom floor, mirror, toilet, bookshelves, dining table, etc. Display them around the room.

When a person is selected he/she chooses a product and runs to put it under the correct label. This could be done in teams as a race.

At the end of the game, talk with your group about the appropriate storage of cleaning products, especially when young children live in the house. Check that the young people know what to do if a product is swallowed or comes into contact with the eyes.



6. Demonstrate how to clean the following rooms: bathroom, toilet, kitchen and laundry.

■ 11–13s at least two

■ 14+ all four

This could be done at a parade. Bring in a guest instructor to demonstrate how to clean each of the rooms using a variety of products and then allow the members to take turns in cleaning one of the rooms. This could continue over several parades if it isn't finished in the one session.

Alternatively, you can seek parental help again asking for a note saying that the various rooms have been cleaned.

Handout 5 could be used as a fill-in exercise for those members who complete work faster than others.

Assessment sheet

TASK	DATE COMPLETED
1. Safe use and care of washing machine, doing a weekly load for one month.	
2. How to dry clothes of different sizes and fabrics.	
3. Iron six items- including two items of your clothing, one with set in sleeves.	
4. Safe use and care of electrical appliances: 11–13s four appliances 14+ six appliances	
5. Clean and tidy rooms in the house for one month: 11–13s own bedroom and lounge or dining room 14+ own bedroom, lounge and dining room	
6. Clean the following rooms: bathroom, toilet, kitchen and laundry: 11–13s at least two 14+ all four	

Dear _____ ,

Requirement 5 check sheet

I, _____ am currently working on the Domestic engineer badge. One of the requirements is:

Help to clean and tidy the following rooms in your house for one month:

■ **11–13s your bedroom and either the lounge or dining room**

■ **14+ your bedroom, lounge and dining room**

Please help me by ticking the following list so I can return it to my leader.

Keeping my bedroom tidy by putting things away, dusting and vacuuming.

Week 1 _____ **Week 2** _____ **Week 3** _____ **Week 4** _____

Keeping the lounge room tidy

Week 1 _____ **Week 2** _____ **Week 3** _____ **Week 4** _____

Putting away DVD's, CD's etc
Putting away own clothing

Vacuuming
Dusting (Polishing furniture at least once)

Keeping the dining room tidy

Week 1 _____ **Week 2** _____ **Week 3** _____ **Week 4** _____

Helping clear away dishes
Seeing that chairs are pushed in

Vacuuming
Dusting (Polishing furniture at least once)

Signed _____ Parent/Carer

Handout 1 - Guards/Rangers

Use the words around the page to complete the sentences.

If you want your clothes to last well and remain attractive, you need to treat them kindly.

1. Garment Characteristics

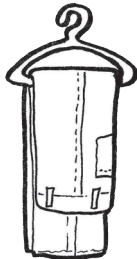
Check the type of fibre and fabric used to make the garment when deciding on laundering and storing procedures.

Read _____ on clothes about correct washing methods.

temperature



stains



large

clean

2. Dirty areas or stains

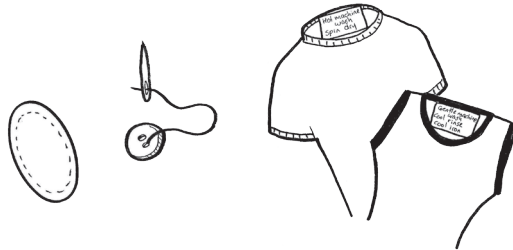
Check for especially dirty areas or _____ before washing. Loosen these by soaking, rubbing with soap, or by spraying with special stain removers.

3. Detergent or washing powder

Choose detergent or washing powder to suit the fibre in the garment; for example,

_____ soap for

_____ fabrics.



squeezing

4. Water temperature

The water _____ should suit the fibre in the garment:

- _____ water shrinks woollen garments.
- use _____ water for coloureds and woollens.

5. Water level

If washing a _____ load go to the highest water level. Small loads only need the _____ level.

6. Washing method

Use a gentle machine action for

- _____ fabrics
- _____ washing for good woollen jumpers.

woollen

dark



hot

hand

drip-dry

lowest

7. Rinsing and spinning

Rinse garments well in _____ water to remove traces of dirty water and so prevent _____.

delicate

hand

Remove excess water by

- _____ by _____ or spin dry on gentle cycle.
- _____ non-iron or easy-care garments.

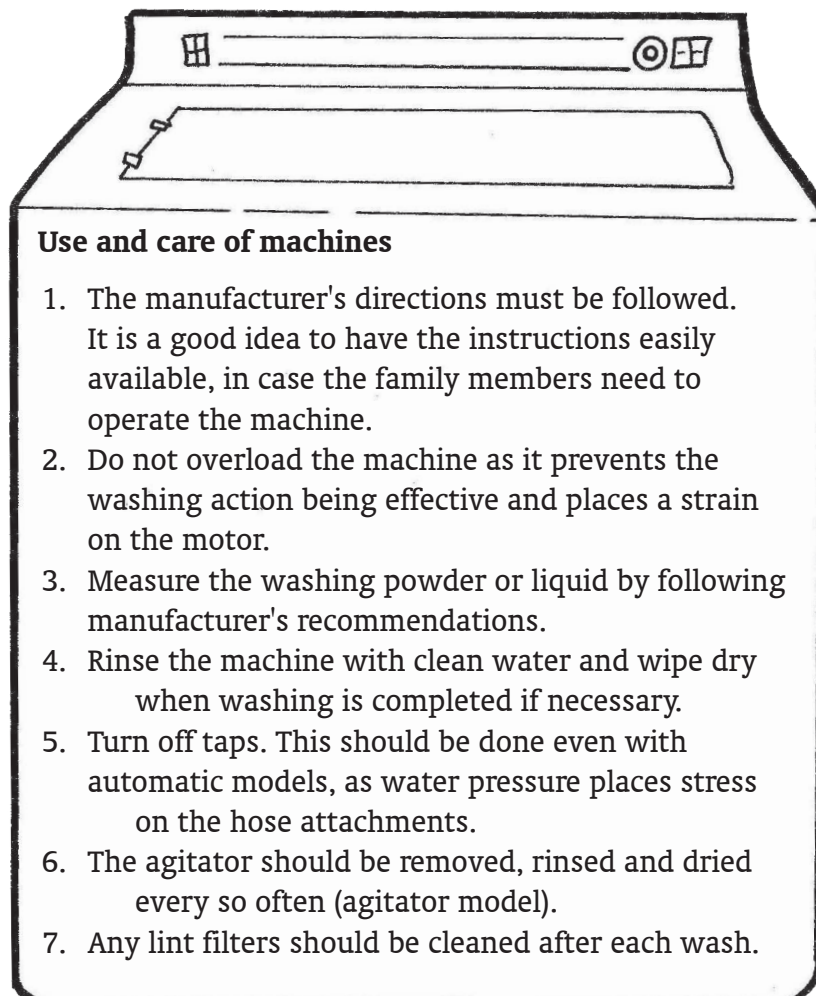
Handout 2 - Guards/Rangers

Common stains and their removal

Most stains can be removed by using spray-on stain removers or soaking but the following ones need special attention.

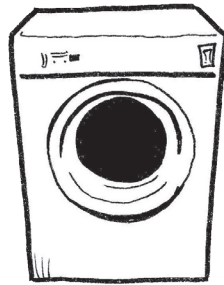
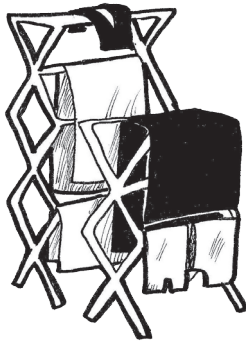
STAIN	METHODS OF REMOVAL
Blood - fresh:	Soak in cold water
- old or dried:	Soak in cold water with an enzyme powder
Chewing gum:	Rub with ice cubes to harden the gum, scrape off as much as possible, then clean with a dry cleaning fluid
Glue:	Check glue manufacturing information for the correct solvent to be used
Pen:	Sponge or soak with methylated spirits
Grease:	Scrape off excess, sponge with grease solvent
Nail polish:	Nail polish remover
School paints:	Soak in cold water
Perspiration:	Spray and if necessary soak
Mildew:	A very stubborn stain as it is a plant growth on the actual fibre A bleach may be needed to remove it, several applications may be necessary

Some stains are very difficult to remove and it would be wise to take good garments to the dry cleaner and tell them the type of stain.



Handout 3 - Guards/Rangers

Drying Clothes



When line drying, hang the clothes so that you won't get peg marks in places that will show. Choose the better method.

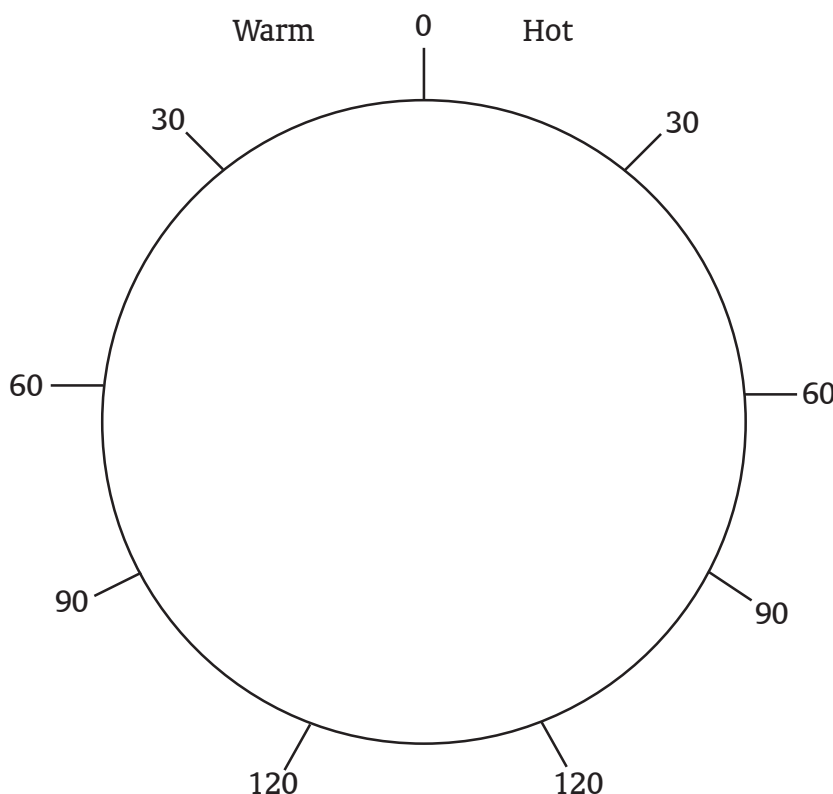
Peg socks by the _____ (heels, toes, tops)

Peg undies at the _____ (waist, side seam, crutch)

Peg shirts by the _____ (shoulders, sleeves, bottom of side seams)

Peg t-shirts partly doubled over the line.

An important function of the dryer is the time and heat setting.



Another important function is the lint filter. The filter needs to be removed and cleaned before each drying load as accumulated fluff can overheat and catch fire.

Discuss with your leader how much time and the correct heat setting you think these articles would need.

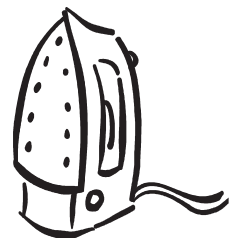
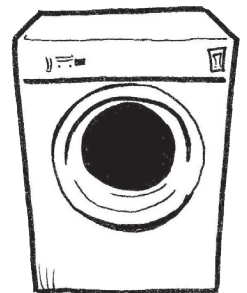
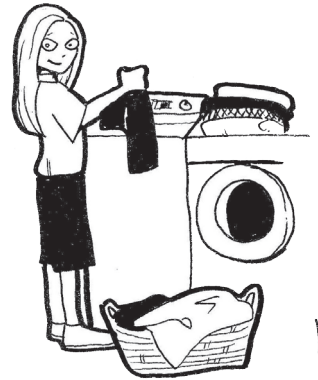
Draw them or write their names near the appropriate time.

Towels, delicate underwear, jeans, cotton shirts, double bed sheets, tea towels, socks.

Handout 4 - Guards/Rangers

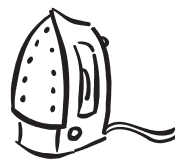
Put a tick beside the safety precautions you observe and highlight the ones that you need to start doing.

1. Switch off the power point before connecting or removing plugs. ☐
2. Never touch electrical appliances with wet hands or stand on a wet floor while using electrical appliances. ☐
3. Never use appliances with damaged cords or plugs and have all repairs done by qualified electricians. ☐
4. Make sure the toaster is switched off before trying to retrieve stuck toast from the toaster. ☐
5. Never clean an iced up refrigerator with a metal object. Clean the seals around a fridge door to prevent bacteria growing. Make sure the door closes firmly. ☐
6. Check there is sufficient water in the electric kettle before turning it on. ☐
7. Never turn on the microwave oven when it is empty. Be careful about taking the lid off food heated in a microwave because the escaping steam can burn. ☐
8. Avoid putting the electrical connection of a fry pan into water. ☐
9. Wipe stove tops clean after every use. ☐
10. Only use recommended dishwasher detergent or powder in dishwashers or suds will start flowing from the dishwasher. ☐
11. Never leave an iron on the fabric you are ironing while you do something else. Make sure the iron is switched off once you have finished using it. ☐



Handout 5 - Guards/Rangers

Word search



R	E	F	R	I	G	E	R	A	T	O	R	G	O	L
L	I	R	O	N	I	N	G	K	I	T	C	H	E	N
A	E	K	I	M	I	C	R	O	W	A	V	E	G	B
U	L	I	O	B	C	O	O	K	E	D	R	I	U	E
N	D	T	Y	R	W	M	I	L	K	E	X	C	F	D
D	S	I	S	E	B	F	G	B	D	M	K	S	I	R
R	A	O	S	L	I	E	T	O	U	E	D	E	H	O
Y	A	U	E	H	S	A	P	U	T	M	E	N	D	O
P	O	A	S	A	W	G	C	S	T	A	R	C	H	M
H	C	I	E	F	N	A	B	A	C	T	E	R	I	A
H	X	S	G	I	V	Y	S	A	N	I	T	I	S	E
V	I	M	H	L	O	I	L	H	F	R	Y	I	N	G
D	S	S	K	E	T	T	L	E	E	H	O	H	O	L
G	A	M	O	P	P	I	N	G	Y	R	Y	E	J	I
W	S	T	A	I	N	R	E	M	O	V	A	L	E	G

Find all of these words in the word search. As you find them consider how they are useful as you become a more proficient domestic engineer.

HOUSEWORK, MICROWAVE, KITCHEN, STAIN REMOVAL, LAUNDRY,
REFRIGERATOR, MOPPING, VACUUM, BEDROOM, IRONING, BLEACH,
SANITISE, DISHWASHER, BUCKET, BACTERIA, DISEASE, WASHING,
MILK, KETTLE, FRYING, MEND, OIL, STARCH, COOKED, BOIL, SOAP.

Devotional ideas



1. **Title:** Getting ready for a guest

Bible: John 14:1-3

Thought: There is a place already prepared for us in heaven

Supplies: Bible

Have you ever helped fix a room for someone who is coming to stay at your house?

What kind of things do you do to prepare for them?

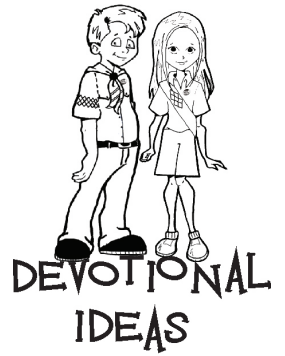
(Encourage the group to give you such ideas as vacuum the carpet, put clean sheets on the bed for the guest, provide a towel, set up the play station or other games so that you can play together.)

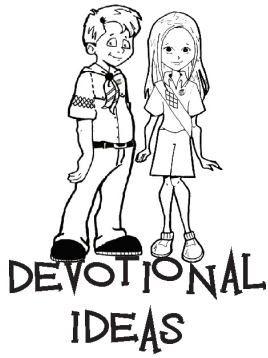
It's good to look after visitors when they come over.

Did you know that when Jesus knew that He was soon to leave this earth and go back to His Father's house that He promised the disciples that He would get a place ready for them when they arrived?

Read together or have one member read John 14:1-3. This promise is for everyone who follows Jesus and believes in Him.

It's awesome to think that He would do that. Let's thank Him that He will welcome us as really special guests when we finally go to His place.





Devotional ideas



2. Title: Items around the house

Bible: The Bible itself

Thought: It is important to keep God's word close to our heart and in our home

Supplies: Whiteboard/chart, markers, pictures of household appliances/furniture, books/furnishings/accessories, Blu-tac, Bible

Draw a large plan of a house on a whiteboard or chart (do it beforehand or as you talk). Using the cut out pictures of various appliances/furniture and have different members place them in the house. (This can be done with re-usable adhesive.)

Ask them what else we could include – keep saying that you can think of something more (or give clues) until someone finally thinks of the Bible. (Alternatively, you can take one out of your bag if they can't guess what is missing.)

Ask them why you think that it is important to have a Bible in the house.

Try to draw out the following points:

- it teaches us about God,
- it teaches us how God wants us to live.
- it gives us encouragement when we feel down,
- it tells us how to make wise choices.

If this hasn't been done at Enrolment, now would be a good opportunity to check if the members do have a Bible of their own and provide one to those who don't, or to give out devotional books.

Devotional ideas



3. Title:

Home alone

Bible:

Philippians 4:6

Thought:

God provides for our needs

Supplies:

Paper and pens for a shopping list, Bible

Have you ever wondered what you would do if suddenly you had to run your home, be the household head and keep things together for a week or so?

Do you think that you could do it?

How about making up a shopping list?

What would you have to remember to buy?

Get the kids to list three of the most important things they need to remember to buy.

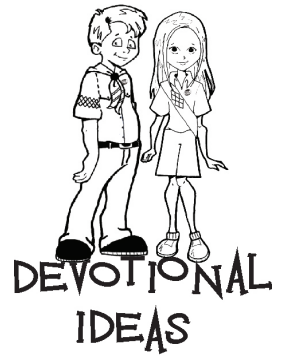
Remind them that we all will have differing needs and each is important.

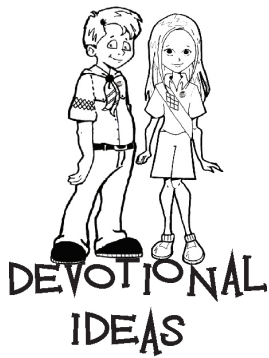
Some of the kids may or may not know their household needs and will say they need their parent's help to make out the list.

It's great to realise that God knows exactly what we need.

Have the group think about the blessings they have – home, food, warm clothes in winter, and so on, and to thank God for His provision and that He is always with us.

Read together Philippians 4:6





Devotional ideas



4. Title: What causes hassles in my home?

Bible: 1 Corinthians 13:4-7

Thought: Love makes a difference in every situation

Supplies: A list of things that cause hassles in the home or a whiteboard/chart and markers, Bible

You may like to have a list already prepared or just ask the group to think about things that cause a hassle at their place and list them as they go. The list could include such things as these:

- Which TV show will we watch?
- Who will wash up or pack the dishwasher?
- Messes left in the lounge room
- Loud music being played
- Hogging the bathroom
- Borrowing without asking
- Food nobody but Mum likes

Discuss with your group what causes these problems.

Is there anything that they can do to help sort them out?

Can I make a difference by co-operating more with others?

Read or have read 1 Corinthians 13:4-7 from a modern translation.

Love makes a difference in every situation.

Read the passage again and ask the young people to think about the difference that could occur when hassles begin if they remembered these words.