

4/12 → 2/6

0.75
1. Formatting:

- | | |
|--------------------------------|--|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png)
- too many digits |

0.5/
2. Introduction/Background:

- brief statement of scientific question - not correct
all variables defined

0.5/
3. EDA:

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

0.5/
4. Model fitting:

- define model mathematically
- state how model fitted (ie, LS)
- CLEARLY describe how model selected - not complete
- define all terms - AIC, HSD

before fitting0.5/
5. Model assessment:

- CLEARLY state model assumptions:

incomplete

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

- interpret, don't just conclude

2.25/8

0.5 /

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

incomplete + not

completely
defined (what
do the variable
terms mean?)

0.75 /

7. Plots:

+ number each plot

label size (not too small)

placement

informative captions

NOT BLURRY

0.25 /

8. Conclusions

recap analysis

state and interpret

main findings

not
correct

0.25 /

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- project 1 - markdownfile.pdf ?? (p. 1)

- incorrect interps (p. 1/2 throughout)

- 2-way anova?? (p. 3)

- no citations

- what is the purpose of the plot on p. 2?

- interpret interaction plots, don't just conclude

1.75 / 4

6.5/12 → 3.25/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 02

1. Formatting:

- | | |
|--------------------------------|--|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png)
- digits (t/p-values) |

0.25/1
2. Introduction/Background:

brief statement of scientific question - not correct

all variables defined flavor score

1/2
3. EDA:

- Also for categorical vars
- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

4. Model fitting:

- define model mathematically - over-parametrized; i, j, k, l, m, n
state how model fitted (ie, LS) as written not defined
CLEARLY describe how model selected - which F-tests explain
define all terms i, j, ..., m, AIC selection procedure not just command

1.25/2
5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated - not correct
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals, - interpret plot

residuals vs. fitted - interpret plot

(don't need Shapiro-Wilk, Levene

4.5/8

0.25/

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

0.25/

7. Plots:

Fig 1 - density curve not defined

(label size (not too small)
placement

informative captions

NOT BLURRY

0.25/

8. Conclusions

recap analysis

state and interpret

not correct

main findings

0.75/

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

tests (?)

- results would be more clear in a table
- interpret interaction plots, don't just conclude
- give p-values (not < 0.01)
- anova tables ?

Problem (circle) : R1 / R2 / A1 / A2 Group number 03

1. Formatting:

- | | |
|--------------------------------|------------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

0.5/
1
2. Introduction/Background:

- not only Western meals!
- brief statement of scientific question
- imprecise
- all variables defined - F (not \hat{F})

1/2
3. EDA:

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

incomplete

0.75/
2
4. Model fitting:

- define model mathematically - not estimated \hat{F} , $\pm E$ - no residuals as written
- state how model fitted (ie, LS)
- CLEARLY describe how model selected
- define all terms AIC incorrect
- write hyps. mathematically

5. Model assessment:

- CLEARLY state model assumptions:

1. errors have mean 0 - resids always have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

- incomplete interpretation
* The way you have written the model is incorrect,
you need to use indicator variables for
factor levels

0.75

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

The β 's are also estimated

0.75

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.5/1

8. Conclusions

recap analysis

state and interpret

(+ EDA)

main findings

not completely
correct

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

- refs incomplete
- anova tables?
- why do you use different measures
for your different models
-
-
-
-
-
-
-
-

5/12 → 2.5/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 04

1. Formatting:

- | | |
|--------------------------------|------------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

0.25/2. Introduction/Background:

brief statement of scientific question

not clear

all variables defined

flavor score

1/2 3. EDA:

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

Figure 1 perhaps better summarized numerically

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

0.5/2 5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

- **SQUARE**

residuals vs. fitted

interpret plots, don't just conclude

3/8

0.11

not done?

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coeffs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.25

8. Conclusions

recap analysis

state and interpret

main findings

not correct

0.75

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

- Square QQ plots

- 'normality' (not 'gaussianity')

Problem (circle) : R1 / R2 / A1 / A2 Group number 06

8.5/12 → 4.25/6

1. Formatting:

- | | |
|--------------------------------|------------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

0.75/1
2. Introduction/Background:

brief statement of scientific question

all variables defined

— (Flavor score only implicit)

2/2
0.75/2
3. EDA:

univariate numerical bivariate numerical (cor)

univariate graphical bivariate graphical

(probably don't need Figure 2)

4. Model fitting:

define model mathematically

— why no interactions?

state how model fitted (ie, LS)

you fit model (not 'try to')

CLEARLY describe how model selected

define all terms

errors 'satisfy' (not 'verify') + iid

5. Model assessment:

You 'assess', not 'verify', assumptions

1.5/2
CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE

— qq normal plot of residuals,

residuals vs. fitted

— full interpretation

6/8

0.75 // (define Y)

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

0.75 // $\hat{y} = \alpha + \beta_1 x_1 + \beta_2 x_2 + \epsilon$

7. Plots:

label size (not too small)

(informative captions)

placement

NOT BLURRY

- Figure 2 not 'pie charts'

0.25 // 8. Conclusions

recap analysis

state and interpret not correct

main findings

0.75 // 9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor satisfactory good excellent

→ cite ^{all} refs in text (no 'general' refs)
- somewhat superficial

Problem (circle) : R1 / R2 / A1 / A2 Group number 08

9/25/2 → 4.625/6

1. Formatting:

- | | |
|--------------------------------|-----------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

2. Introduction/Background:

- brief statement of scientific question
all variables defined

3. EDA:

- categorical*
univariate numerical bivariate numerical (cor)
univariate graphical bivariate graphical

4. Model fitting:

- define model mathematically
state how model fitted (ie, LS)
CLEARLY describe how model selected
define all terms i, j, k, l, e

is for estimated values
+ incompletely specified

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARES

- qq normal plot of residuals,
residuals vs. fitted *interpret*
(don't need Shapiro-Wilk)

6.5/8

- why do you have interactions if they are not significant?

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

- no error in est. model

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

8. Conclusions - use paragraphs

recap analysis

state and interpret

main findings

be specific

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- don't need Table!

- Typically you start reducing the model
by removing interactions

- integer df

5.75/12 \Rightarrow 2.875/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 10

1. Formatting:

- | | |
|--------------------------------|------------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

2. Introduction/Background:

- brief statement of scientific question
all variables defined

3. EDA:

words??

- univariate numerical
univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

no interactions?

define model mathematically - no ↑ with + &

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC; i

$\times \times \times_i$??

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,
residuals vs. fitted

) interpret these
plots

3.75/8

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

no error term in estimated model

0.5/1

7. Plots: number all plots

label size (not too small)

informative captions

placement

NOT BLURRY

- what does the plot just above 1.3 mean?

8. Conclusions

recap analysis

state and interpret

(incomplete)

not correct

main findings

0.25/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- Table 2 p-values un-informative

- just above Table 3: its (not it's)

- 01, 9, 2: what is the average flavor score?

Without this, cannot tell how good the model fit is

- no references

2/4

1. Formatting:

all margins 2.5cm	informative title
12 pt size	member names on all pgs
no raw R code or output	all pages numbered
max 7 pages	no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

Flavor Score

3. EDA:

univariate numerical	bivariate numerical (cor)
univariate graphical	bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

i, j, k, l, m

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE

qq normal plot of residuals,

residuals vs. fitted

interpretation not entirely correct

④ Final model leaves out size, so design/hypotheses
not balanced/interpretable

0.25/1

6. Write out final estimated model mathematically

hat on response variable

max 2 sig digits on coeffs

0.75/1

7. Plots: some plots too large

label size (not too small)

informative captions

placement

NOT BLURRY

not necessarily the
entire plot

0.25/1

8. Conclusions

recap analysis

state and interpret

not correct

main findings

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

- put refs at end (no footnotes)
- incorrect interpretation of design plot
- use words, your report jumps from bullet point to bullet point

1.75/4

1. Formatting:

D 25/1 all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

informative title**member names on all pgs**

all pages numbered

no blurry plots (**NOT png**)

2. Introduction/Background:

Y₁ brief statement of scientific question

all variables defined

3. EDA:

2/2 univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

125/2 over-parametrized
as written

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

- results for both models

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

- incomplete interpretation
(Don't need test)

6.25/8

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

8. Conclusions

recap analysis

state and interpret

main findings

- not completely correct

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

- Square QQ plots

3.25/4

7/12 → 3.5/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 14

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

(too many digits)

1/1 2. Introduction/Background:

brief statement of scientific question

'are associated with'
(not 'influence')

all variables defined

1.25/2 3. EDA:

univariate numerical

bivariate numerical (cor)

) incomplete

univariate graphical

bivariate graphical

- Don't need flavor box plot

1/2 4. Model fitting:

over-parametrized
as written

define model mathematically

state how model fitted (ie, LS)

* CLEARLY describe how model selected

define all terms

i, j, k, l, m, AIC

- Tests not specified (mathematically)

1/2 5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

what does 'linearity' mean here? You have specified a linear (in the parameters) model

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

- interpret plot, don't just conclude incomplete interpretation

* You can specify a 'full' model for step AIC that is not saturated (look at 'scope')

not done?

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

7. Plots:

(label size (not too small))

placement

informative captions

NOT BLURRY

8. Conclusions

recap analysis

state and interpret

not correct

main findings

9. Overall presentation (clarity of explanations and language, appropriate citations / references) : *some what incomplete*

poor

satisfactory

good

excellent

- you should not have p-values of 0

2/4

7.75/12 → 3.875/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 17

1. Formatting:

all margins 2.5cm	informative title
12 pt size	member names on all pgs
no raw R code or output	all pages numbered
max 7 pages	no blurry plots (NOT png)

2. Introduction/Background:

- brief statement of scientific question
all variables defined

1.75/2

3. EDA: 'no sig assoc' = ?

- univariate numerical bivariate numerical (cor)
univariate graphical bivariate graphical

0.75/2

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

interpretation

5. Model assessment:

model not 'validated', it's assessed, not 'verified'

CLEARLY state model assumptions:

- 1. errors have mean 0
- 2. errors are homoscedastic (same variance)
- 3. errors are uncorrelated
- 4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

These plots do not ensure the validity of model

- Don't need Levene's plots, don't just conclude

5.5/8

0.5/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

1/1

7. Plots:

label size (not too small)

placement

QQ normal plot of residuals
(informative captions)

NOT BLURRY

0.25/1

8. Conclusions

recap analysis

- not 'confirms'

state and interpret

main findings

not completely correct

what are the valuable insights?

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

logic somewhat difficult to follow

- cite primary refs

- conclusions over-stated, also vague

2.25/4

7.25/12 → 3.625/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 18

1. Formatting:

- | | |
|--------------------------------|-----------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

0.5/1 2. Introduction/Background:

brief statement of scientific question

all variables defined

1.5/2 3. EDA:

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

1/2 4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

(Both directions' is called stepwise)

- size not written in model

- assess not verify

0.75/2 5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

⊗ no F-value for resids

- what are the k.p.s?

) explain plots, then interpret
then conclude

4.75/8.

0.75/1

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

1/1

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.25/1

8. Conclusions

recap analysis

state and interpret

not correct

main findings

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references)

poor

satisfactory

good

excellent

logic hard to follow in parts

- refs: how is phylogenetic tree AIC relevant?
- cite primary refs
- your model selection procedure and results are not completely clear

2.5/4

7.25/12 → 3.625/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 19

1. Formatting:

- | | |
|--------------------------------|------------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

0.5/1
2. Introduction/Background:

brief statement of scientific question

all variables defined

1/2
3. EDA:

- | | |
|----------------------|---------------------------|
| univariate numerical | bivariate numerical (cor) |
| univariate graphical | bivariate graphical |

0.75/1
4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

④ - Final model anova table?

1.5/2
5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

- interpretation is vague

④ if you have interactions with size, you should also have size as a main effect, otherwise you no longer have orthogonal effects

9.25/8

0.5/1 ① 6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

Y_i 7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0.5/1 ② 8. Conclusions

recap analysis

state and interpret

main findings

0.5/1 ③ 9. Overall presentation (clarity of explanations and language, appropriate citations / references) : *somewhat incomplete*

poor

satisfactory

good

excellent

* Write the final estimated model as an equation (combine pgs 5+6)

Logic somewhat hard to follow

2.5/4

7.5/12 → 3.75/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 20

0.5/1

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

use more interline, report is hard to read - too many digits

0.75/1

2. Introduction/Background:

brief statement of scientific question

all variables defined

Flavor score (only implicitly defined)

1.5/2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

0.25/1

4. Model fitting:

define model mathematically

why write $\sum \frac{e_i^2}{n}$??

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Tukey HSD, also you have is NOT a 'full factorial' model; also you include 'interactions'

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE

qq normal plot of residuals,

residuals vs. fitted

- explain plot (what does 'red line' mean?)

- explain clearly findings - analysis does not confirm a causal effect

* you over-state your findings - analysis does not

5/8

(see ) 0.75 / 1
6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coeffs

7. Plots:

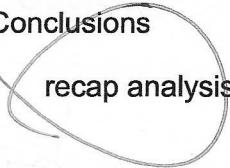
label size (not too small)

informative captions

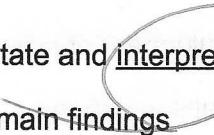
placement

NOT BLURRY

0.25 / 1
8. Conclusions

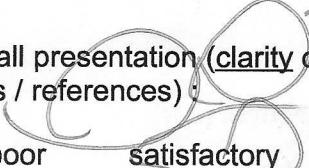
 recap analysis

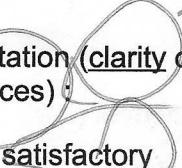
state and interpret

 main findings

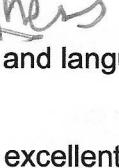
 not correct

0.5 / 1
9. Overall presentation (clarity of explanations and language, appropriate citations / references) : + Correctness

 poor

 satisfactory

 good

 excellent

 re-write Equation (2) to include the numerical values and remove Table 4
← remove excessive space p. 2
- no refs

2.5 / 4

7/12 → 3.5/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 88

1. Formatting:

- | | |
|--------------------------------|------------------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | member names on all pgs |
| no raw R code or output | all pages numbered |
| max 7 pages | no blurry plots (NOT png) |

0.75/1
2. Introduction/Background:

brief statement of scientific question

all variables defined

(not quite correct)

1.25/2
3. EDA:

univariate numerical

bivariate numerical (cor).

univariate graphical

bivariate graphical

Don't need boxplot

- incomplete

over-parametrized as written

0.75/1
4. Model fitting:

define model mathematically - no \wedge with t^2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms i, j, k, l, m

- put Table 4 all on 1 page + variable names in Table

5. Model assessment:

1/2
CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE -

qq normal plot of residuals,

residuals vs. fitted

- explain plot + interpret correctly

4.75/8

y not defined

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coeffs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

8. Conclusions

recap analysis

(+EDA)

state and interpret

main findings

not correct

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

Table 6 confusing

- no refs
- why Figure 2 has 2 separate plots?
- Square g-g plots

7.25/12 → 3.625/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 89

1. Formatting:

- all margins 2.5cm
12 pt size
no raw R code or output
max 7 pages

- informative title**
member names on all pgs
all pages numbered
no blurry plots (NOT png)
too many digits

0.75/1
2. Introduction/Background:

brief statement of scientific question

Don't need (3)

all variables defined

Flavor only implicitly defined

3. EDA:

- 2/2
univariate numerical
univariate graphical

- bivariate numerical (cor)
bivariate graphical

0.75/10
4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

i, j, k, l, m, AIC

- Explain any tests mathematically

0.5/2
5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

interpret, don't just conclude
interpretation not completely correct

explain plots

④ How do you deal with the saturated model?
You have size in interaction terms but not as main effect
- this means the effects are not orthogonal !!

5/8

0 // 1 not done?
6. Write out final estimated model **mathematically**

(hat on response variable

max 2 sig digits on coeffs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

0 .5 // 1
8. Conclusions

recap analysis

+EDA

state and interpret

main findings

not correct

0 .75 // 1
9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- square QQ plots

- cite primary refs (not [5])

- anova tables would be much clearer if you use words rather than symbols

2.25/4

5.25/12 → 2.875/6

Problem (circle): R1 / R2 / A1 / A2 Group number 90

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

informative title

member names on all pgs

all pages numbered

no blurry plots (**NOT png**)

Top p.7

2. Introduction/Background:

brief statement of scientific question

all variables defined

0.75/1

3. EDA:

~~univariate numerical~~

univariate graphical

bivariate numerical (cor)

bivariate graphical

Figure 3 unclear
because only 2
levels of G+H
(???)

Don't need figure 2

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

Don't need F formula.
randomization description not
entirely correct

CLEARLY describe how model selected

(first you say Eq 4 is 'fine model')
define all terms

- size SS not = 0 then you put in points.

specific to THIS
problem (not Eq. 1)

5. Model assessment:

assess not 'verify'

CLEARLY state model assumptions:

1. errors have mean 0

2. errors are homoscedastic (same variance)

3. errors are uncorrelated

4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

Figure 3: Growth

+ interpret plots

Here, the 'groups'
are the cross-classified obs
NOT separately for
each var.

2 2 (3 4)
2 2 (3 4)

3.25/8

not 5 1 2 3 4 + 1 2 3 4

which is Final model?

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coeffs

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

8. Conclusions

recap analysis

state and interpret

main findings

not completely
correct

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

+ completeness/correctness

- Table 3 differs slightly from Eq. 4
- Don't need both Tables 3+4, just put equation with final selected model

2.5/4