



SASsyFriday – Path Analysis

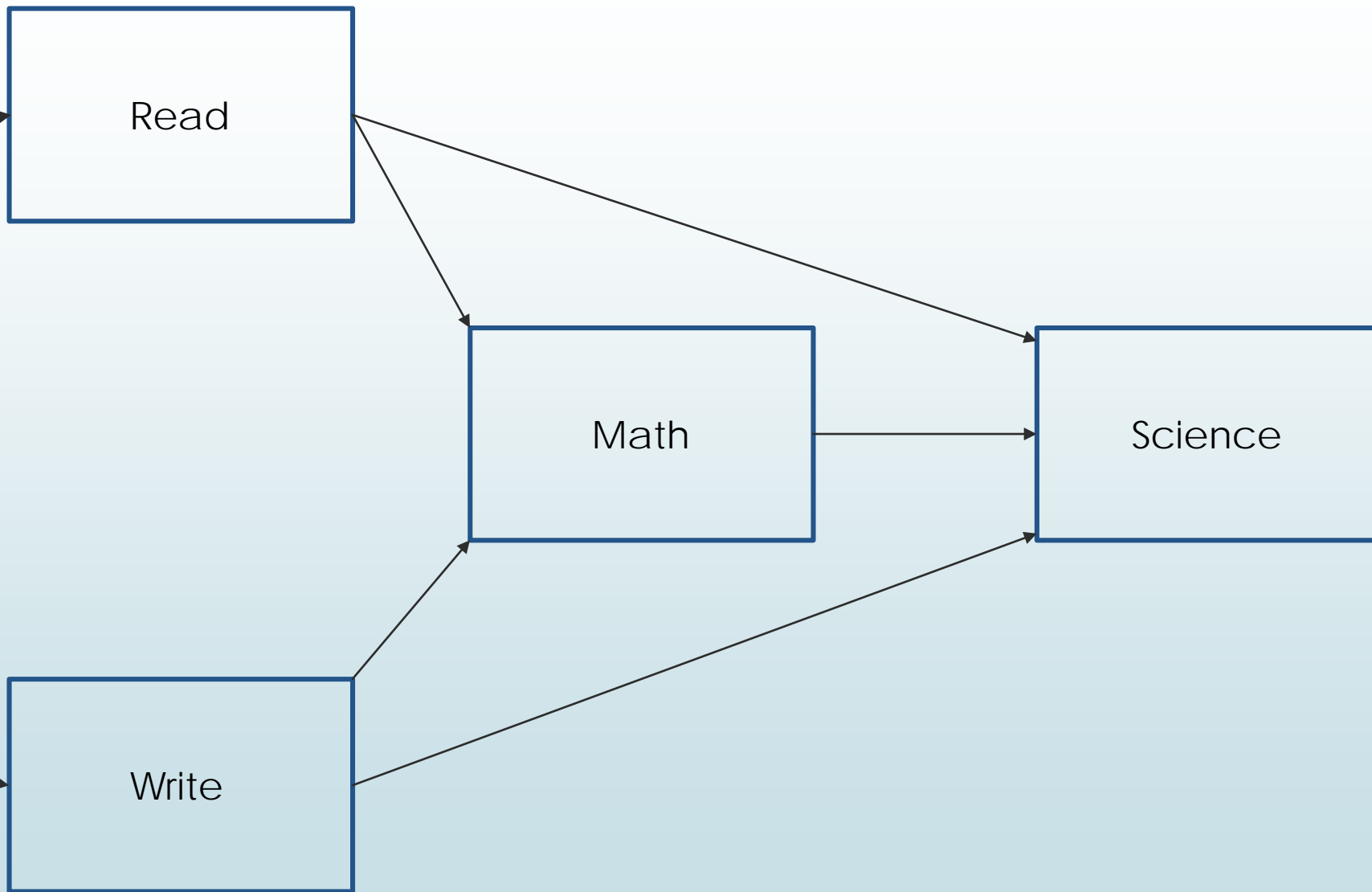
September 21, 2018

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Path Analysis

- ▶ Allows us to examine relationships among variables
- ▶ Exploratory type of analysis
- ▶ SEM – Structural Equation Modelling – study of causal relationship between variables
- ▶ Common analysis used in social, educational, behavioural, and marketing research
- ▶ Breaks apart correlations



A decorative graphic on the left side of the slide. It features a dark blue vertical bar at the top left, a black arrow pointing right, and several thin, curved lines in shades of blue and grey that sweep across the page from the left edge.

Path Analysis in SAS

- ▶ PROC CALIS

- ▶ Path – list all one direction paths

- ▶ These are known as direct effects – only one direction

- ▶ Effpart – list all indirect effects

- ▶ Pcov – list all double arrow paths

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```
Proc calis data=sasdata.hsb2;
```

```
path
```

```
read --> science,
```

```
read --> math,
```

```
write --> science,
```

```
write --> math,
```

```
math --> science;
```

```
effpart
```

```
read -> science,
```

```
write -> science;
```

```
Run;
```

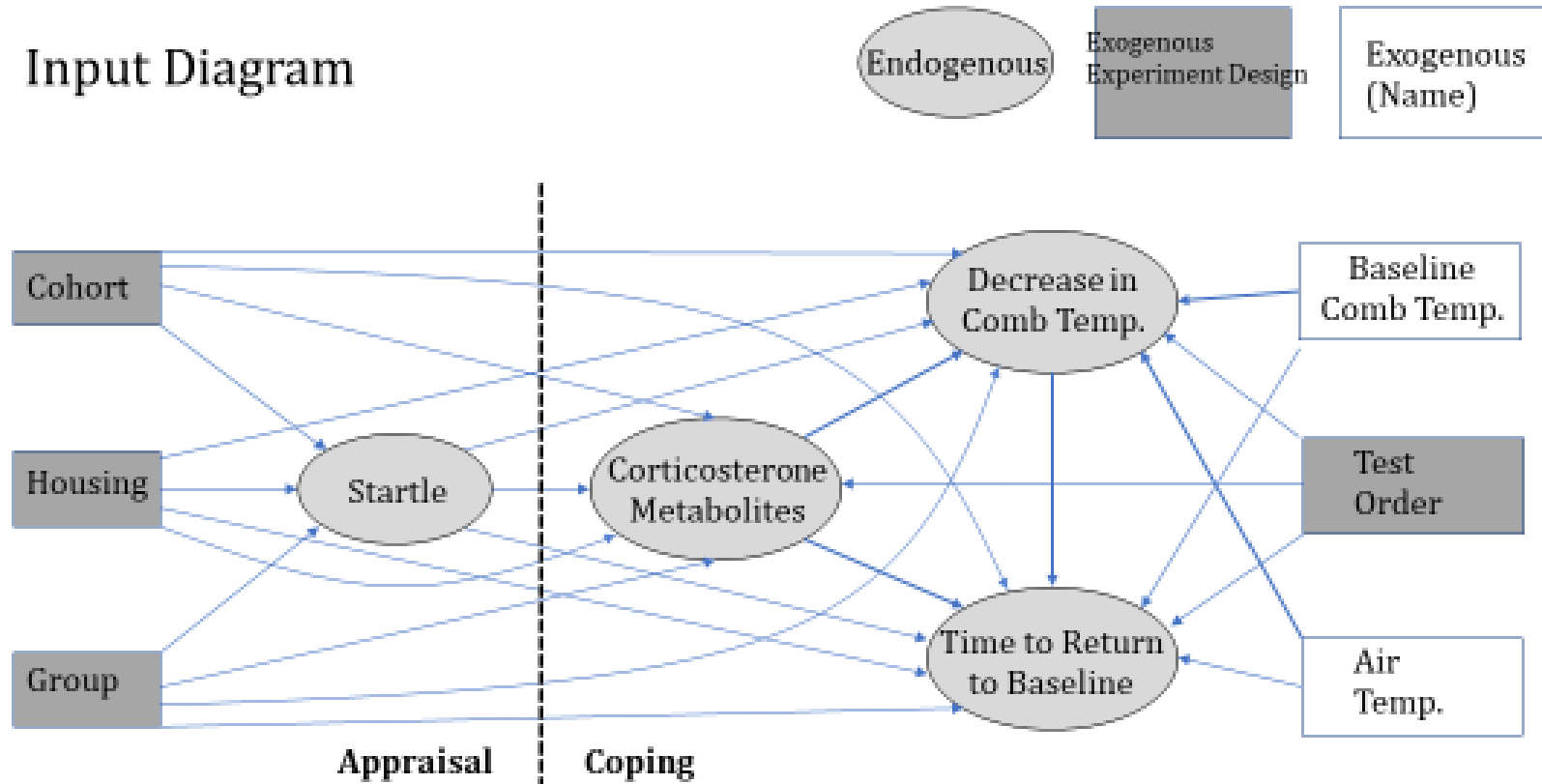


Review output



Animal Behaviour Example

Input Diagram



Soil Science Example

