Subject	Year	Term
Environmental Science	12	2

Topic

Mineral Resources

Content (Intent)

Prior Learning (Topic)

Igneous, sedimentary and metamorphic rocks
Earth processes

Future Learning (Topic)

Minerals extracted from the lithosphere

Geological processes that produced localised concentrations of recoverable mineral deposits

Reserves and resource

How a range of exploratory techniques work

Factors affecting mine viability

Control of the environmental impacts of mineral exploitation

Strategies to secure future mineral supplies

How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)
Note taking Presentation on exploratory techniques estimate the impact of a change in cut-off ore grade on the abundance of mineral reserves using the exponential trend of Lasky's principle. identify trends in mineral use from scatter diagrams of per capita use and mean GDP. estimate the lifespan of reserves of a metal using data on per capita use, population size and current reserves analyse trial core survey data to assess mine viability	- Homework Booklet marked and written feedback given Test marked, graded and feedback given

How can parents help at home?

Look at the topic specific resources on the VLE
Use appropriate YouTube channels
Encourage students to write revision cards
Look at the specification on the AQA website
Complete past papers (on the AQA website)
Take an interest! Ask your children what they have learnt and be curious about their learning.

Helpful further reading/discussion

Reading	**Vocabulary Lists**	**Careers Links**
Environmental Science Chapter 6	Lithosphere Batholith Lasky's principle Alluvial Resource Reserve Stock Overburden Leachate Bioleaching Phytomining Polymetallic nodules Cradle to cradle design	See VLE