

Cognitive load theory and Rosenshine's principles of direct instruction

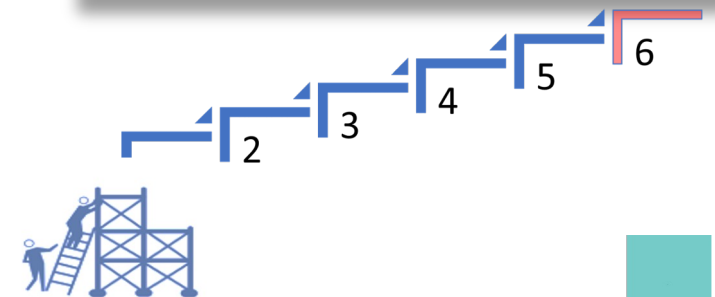
1.7 Using the concept of schema to build content

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VIDEO 2:
How to make effective learning content

Strand 1: Reviewing material



REVIEWING MATERIAL

1 Daily review



10 Weekly and monthly review



Strand 2: Questioning



QUESTIONING

3 Ask questions



6 Check for student understanding



Sequencing concepts and modelling



Strand 3: Sequencing concepts and modelling



.....○ SEQUENCING CONCEPTS & MODELLING ○.....

2 Present new material using small steps



8 Provide scaffolds for difficult tasks

4 Provide models





Strand 4: Stages of practice

.....○ **STAGES OF PRACTICE** ○.....

7 Obtain a high success rate

5 Guide student practice



9 Independent practice





last lesson

work out the fraction of the shaded part and write whether it is a unit or a non-unit fraction

Unit fraction

Non-unit fraction

Last week

Find the perimeter of this rectangle

Perimeter =

Last month

7b. Maureen had this much money.

Her friend gave her £1 and 50p more.
How much does she have altogether?

Last term

5a. Use this bar chart to answer the questions about favourite drinks.

Drink	Number of children
Water	10
Milk	55
Cola	15
Juice	25
Tea	10

A. How many children like cola?

B. How many more children like milk than juice?

C. How many children liked water and tea altogether?

D. How many children were asked in total?

An example of 'review': Retrieval Practice



Unit: The living world		Topic: Ecosystems	
Answer the following knowledge-based questions. This will assess the foundations of your learning for this topic.			
	Question	Value	Answer
1	A biome is a global ecosystem. True or false.	1	
2	A food chain shows the complex relationship between many producers and consumers. True or false.	1	
3	Name two ecosystems found near the equator.	2	
4	Name one way that humans can affect the balance of an ecosystem.	2	
5	Name one physical factor that can affect the balance of an ecosystem.	2	
6	Give an example of a producer, consumer and decomposer.	3	
7	How would the loss of or gain of a species affect a food web?	3	
8	Explain the difference between a food web and food chain.	3	
9	Explain the difference between 'biotic' and 'abiotic.'	4	
10	Name two factors that affect the location of an ecosystem.	4	

TOTAL SCORE

Multiply by 4

PERCENT

%

80%-100%
EXCELLENT KNOWLEDGE
You have excellent knowledge of this topic and this will provide a great foundation for accessing the highest grades.

50%-79%
SECURE KNOWLEDGE
You have secure knowledge of this topic. This will support you gain a strong pass in geography. Try to improve to gain highest grades

Below 49%
DEVELOPING KNOWLEDGE
You have some sound knowledge of the topic, but there is a real need to focus on the basics to ensure a strong understanding.

Add your % to the thermometer.

