Physics - Key Stage 3 - Energy

Lesson 13: Non-renewable energy resources

Mrs Evans

Independent practice: answer the questions

1. What are the 4 different non-renewable energy resources?

2. Which of these are fossil fuels?

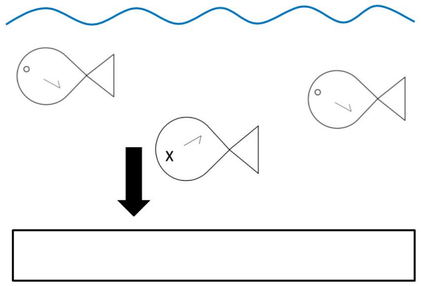
3. What does non-renewable mean?

4. What does finite mean?

5. Give two examples of nuclear fuels

Independent practice: put the pictures in order and write a description for each picture

A



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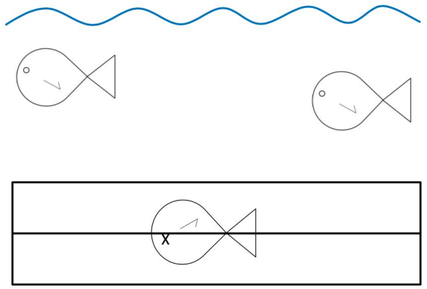

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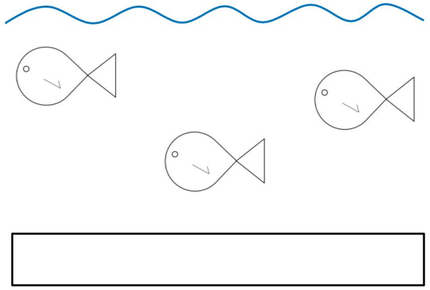

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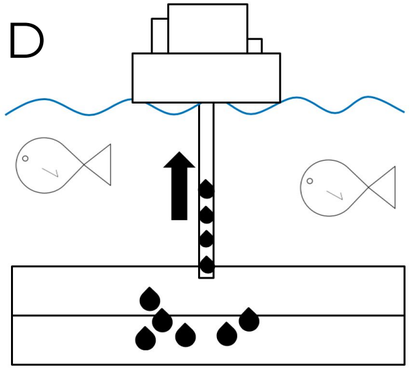

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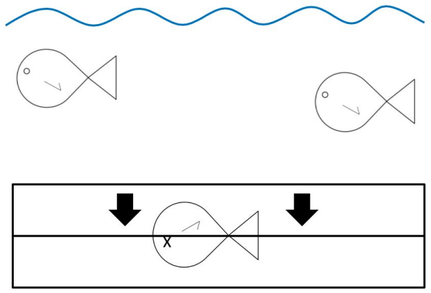

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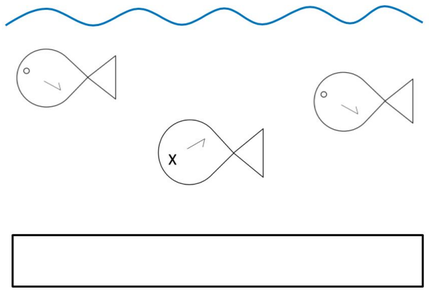

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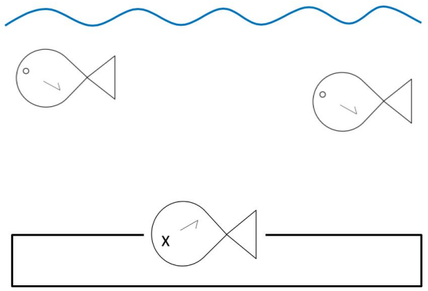

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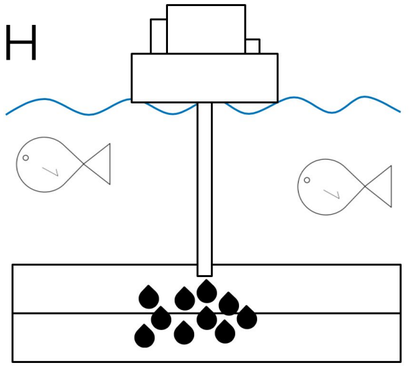

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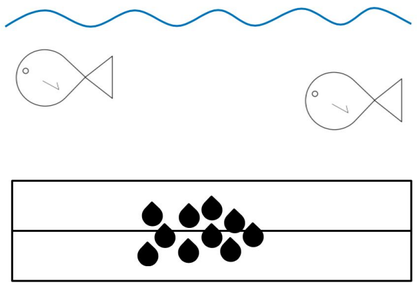

Independent task: complete the gaps

___ ? ___ is pumped into pipes in the boiler. The___ ? ___ fuel (coal, oil or gas) is burnt in the ___ ? ___ (furnace).

Energy in the ___ ? ___ store of the fossil fuel is ___ ? ___ to energy in the ___ ? ___ store of the water, heating it, so it ___ ? ___. When the water reaches ___ ? ___°C it turns into ___ ? ___. The steam leaves the boiler through a ___ ? ___ pipe and goes into the ___ ? ___.

Energy in the ___ ? ___ store of the steam is transferred to energy in the ___ ? ___ store of the turbine causing the blades to spin around. The turbine is connected to a ___ ? ___ and the generator turns which generates ___ ? ___.

Support
- use these words to fill the gaps

100	boils	boiler	chemical	electricity
thermal	fossil	water	turbine	narrow
steam	thermal	kinetic	generator	transferred

Independent task: evaluate the use of fossil fuels

Advantages	Disadvantages