Matter Connect Four

Produced by Rose Elgar from the Cambridgeshire Multicultural Education Service. A series of bingo, connect four and dominoes activities for consolidating the spelling and meanings of scientific vocabulary at KS3 and 4.

We welcome more contributions in this area since it supports the KS3 literacy strategy

The webaddress for these activities is
<http://www.collaborativelearning.org/matterc4>

COLLABORATIVE LEARNING PROJECT
Project Director: Stuart Scott
Supporting a cooperative network of teaching professionals throughout the European Union to develop and disseminate accessible teaching materials in all subject areas and for all ages.

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BRIEF SUMMARY OF BASIC PRINCIPLES BEHIND OUR TEACHING ACTIVITIES:
The project is a teacher network, and a non-profit making educational trust. Our main aim is to develop and disseminate classroom tested examples of effective group strategies across all phases and subjects. We hope they will inspire you to use similar strategies in other topics and curriculum areas. We run teacher workshops, swapshops and conferences throughout the European Union. The project publishes a catalogue of activities plus lists in selected subject areas, and a newsletter available by post or internet: “PAPERCLIP’.

*These activities were influenced by current thinking about the role of language in learning. They are designed to help children learn through talk and active learning in small groups. They work best in mixed classes where children in need of language or learning support are integrated. They are well suited for the development of speaking and listening . They provide teachers opportunities for assessment of speaking and listening and other formative assessment.

*They support differentiation by placing a high value on what children can offer to each other on a particular topic, and also give children the chance to respect each other’s views and formulate shared opinions which they can disseminate to peers. By helping them to take ideas and abstract concepts, discuss, paraphrase and move them about physically, they help to develop thinking skills.

*They give children the opportunity to participate in their own words and language in their own time without pressure. Many activities can be tried out in mother tongue and afterwards in English. A growing number of activities are available in more than one language, not translated, but mixed, so that you may need more than one language to complete the activity.

*They encourage study skills in context, and should therefore be used with a range of appropriate information books which are preferably within reach in the classroom.

*They are generally adaptable over a wide age range because children can bring their own knowledge to an activity and refer to books at an appropriate level. The activities work like catalysts.

*All project activities were planned and developed by teachers working together, and the main reason they are disseminated is to encourage teachers to work effectively with each other inside and outside the classroom. They have made it possible for mainstream and language and learning support teachers to share an equal role in curriculum delivery. They should be adapted to local conditions. In order to help us keep pace with curriculum changes, please send any new or revised activities back to the project, so that we can add them to our lists of materials.

Materials Connect Four Game Board

properties	melting point	boiling point	conductor of electricity	conductor of thermal energy
atom	element	symbol	periodic table	group
period	physical change	oxide	chloride	sulphide
corrosion	compound	pure	molecule	periodic table
atom	conductor of electricity	period	melting point	conductor of thermal energy

Matter Connect Four Cards: print in two colours and cut out.

these show how a material behaves or looks	the temperature at which a solid changes into a liquid	the temperature at which a liquid changes into a gas	something that allows electricity to pass through it	something that allows heat to pass through it
the simplest particle that all matter is made from	a substance made up from only one type of atom	a short hand way of showing an element	a table that shows all the elements	a column in the periodic table
a row in the periodic table	when no new substance is made e.g. ice melting	when a metal reacts with oxygen	when a metal reacts with chlorine	when a metal reacts with sulphur
this happens when metals are left outside for a long time	a substance made up of two or more types of atoms joined together	a substance is pure when it contains only one type of atom or compound	a group of atoms joined together	a table that shows all the elements
the simplest particle that all matter is made from	something that allows electricity to pass through it	a row in the periodic table	the temperature at which a solid changes into a liquid	something that allows heat to pass through it