MESSY SCIENCE IDEAS

Science activities can be dangerous. Always do a risk assessment for your venue and your group. Work out what dangers there could be and how you will minimise risk.

Bible Passage	Activity	Resources	Talk about
2 Corinthians 5:17 Therefore, if anyone is in Christ,the new creation has come: The old has gone, the new is here!	Put a couple of tablespoons of oil in the pan and add a small handful of corn. Put the lid on, leave a small gap for steam to escape, and heat on high. The children can watch from a safe distance, but remember there is very hot fat in the pan. When all the corn has popped, take the pan off the heat. When you are sure that there are no more "pops" take the lid off and share the popcorn with a little sugar or salt.	Bag of popping corn Vegetable oil and tablespoon Tabletop or camping burner Large pan with glass lid Salt and/or sugar Small plastic bowls	They will almost certainly have eaten popcorn, but talk about whether any of them know how it starts off. The popcorn is the same thing as the corn, but it has changed beyond all recognition and can't be changed back! How do our lives change when we know Jesus? We are still the same people but we might seem very different. Can you describe any changes that you've seen in friends/family when they've come to know Jesus?
1 John 3:20 If our hearts condemn us, we know that God is greater than our hea rts, and he knows everything.	Explain that one of the six eggs is hardboiled but that you've forgotten which one. Without cracking or breaking any of the eggs can you discover which is the hardboiled one? Just show them all the equipment and leave it to them to decide how they might decide. As everyone decides put a mark on the egg that they think is the hardboiled one. At the end, show them the real test – the hardboiled egg will spin whereas the fresh ones won't because of the liquid moving inside. Prove it by cracking the hard boiled one (over a leader's head, if you like!)	Box of six eggs, one is hardboiled (make no markings on any of the eggs, they must all look the same.) Kitchen scales Magnifying glass If you can get one, a stethoscope Bowl of water Tape measure	When you look at all the people you know, some of them might be happy and friendly and some might be grumpy! But actually we don't know what is going on inside someone's heart. The might be all sorts of reasons why someone feels sad or doesn't want to be very friendly. What sort of things can make this happen? Only God knows what is really inside someone's heart. If we trust in Jesus we can be sure that he's with us every day, even if things sometimes go wrong.
Ephesians 3:19and to know this love that surpasses knowledge—that you may be filled to the measure of all the fullness of God	Light the candle and blow it out a few times. Talk about what the children think the flame is and what makes it burn. Ask them what they think will happen if you put a glass jar over the candle. Now try this – most are quite surprised that it doesn't immediately go out. But that it does go out after a while.	A candle, attached to a plate Matches A clear plastic jam jar	There is something that the candle needs in order to burn – it's in the air and is called oxygen. When you put the jar over the candle it keeps burning because the air in the jar has oxygen in it – but it quickly gets used up and the candle goes out. God's Holy Spirit is in us when we trust in Jesus. What things does the Holy Spirit do in our lives? But we need this Holy Spirit afresh every day or like the candle going out we might stop doing God's work.

2 Peter 1:16 For we	Allow everyone to look at the banana. Explain that you	A pre-sliced banana – choose	Can you think of some of the miracles that Jesus
did not follow cleverly	love bananas and custard but that you have forgotten to bring your special banana slicing knife. You wish there	a brown speckled one. Insert a clean, long needle at	did? What do you think about them? Is it easy to believe that they happened or do we sometimes
devised stories when	was a special banana slicing spell which would just make	intervals up the banana.	wonder if the first disciples might have made them
we told you about the	it slice by magic!	Being careful not to cut	up?
coming of our Lord Jesus Christ in	Get everyone to think up a magic spell, (Bananas are	through the skin on the other	Peter was one of the disciples (an eyewitness!) and
power, but we were	yellow, bananas are nice, make my banana, fall into a	side, slice the flesh inside	he was absolutely certain that none of the facts
eyewitnesses of his	slice! – I'm sure you can do better than that!)	with the needle. Repeat up	about Jesus were made up stories. He was so
majesty.	Now peel the banana and distribute the slices. As the are	the banana.	certain that he suffered all kinds of punishments
majesty.	being eaten explain that it was just a trick, but that in his letter Peter says that all the amazing things that Jesus	Some custard in little bowls and spoons	from people who wanted him to say that he'd made up everything. Does this make you feel any
	did WEREN'T a trick, they REALLY happened.	and spoons	differently about what Jesus did?
Colossians 1:23 "if you	Show everyone an empty bottle and discuss whether it	Empty plastic bubblebath or	The bottle collapsed because it didn't have enough
continue in your faith,	looks strong enough to stand up on its own. Say that you	coke/lemonade bottles with	air in it. Our faith can sometimes feel like it's
established and firm,	are going to make it crumple without crushing or	lids	collapsing, especially if the people around us are
and do not move from	squashing it.	Hot water stored in flasks	laughing at us for being a Christian.
the hope held out in	Put about an inch of hot water into the bottom of the	Ice	Have you ever felt like you don't know what to say
the gospel.	bottle and screw the lid on firmly.	washing up bowl	about being a Christian, maybe when people are
	Now put the bottle into the washing up bowl with some ice/freezing cold water. As you watch the bottle should		critical or dismissive? What makes your faith firm again?
	gradually crumple. Discuss why this is (As the hot air		How can we trust more in the hope held out in the
	inside the bottle cools it also contracts – gets smaller- so		Gospel? What might help us be filled up by this
	that there is a vacuum – space- left in the bottle. When		hope?
	this happens the pressure of the outside air makes the		
	bottle collapse.		
Colossians 3:16 Let the	Use one of the unmagnetized pins and show how you	New, unmagnetized pins	The first people who knew Jesus was quite a small
message of	are trying to pick up other pins with it. Of course it won't	Magnets	number, and yet now there are Christians all over
Christ dwell among you richly as you teach and	work. Now show an identical pin that you have previously	Trays or bowls to put the pins in.	the world, in every country. How has this happened? A new little magnet can only be made
admonish one another	magnetized by stroking a magnet in the same direction	III.	by another magnet working on it. What things can
with all wisdom through	over it lots of time. This time it will pick other pins up.		help someone new to become a Christian?
psalms, hymns, and	What has changed?		Can we be like the magnet, helping someone new
songs from the Spirit, singing to God with	Talk about what magnetism is and how it's possible to		to find out what it means to follow Jesus?
gratitude in your	use one magnet to create another one.		
hearts.	Everyone can make their own magnetic pin and see how		
	many other pins can be picked up at once.		